



Uma
INORNATA

Uma INORMATA

Uma inornata Temps for One Day

(22 May 1963)

<u>A.M.</u>	
<u>Time</u>	<u>Temp</u>
0730	38.0
0800	34.8
0805	37.4
0815	36.4
0825	37.4
0830	38.2
0845	38.0
0905	37.4
0920	39.0
0945	39.0
0950	42.0
0955	40.4
1015	40.6
1020	42.0
1050	36.6
1055	36.2
1115	39.4
1120	32.4
1145	33.6
1155	35.8

<u>P.M.</u>	
<u>Time</u>	<u>Temp</u>
1205	36.0
1210	36.4
1215	37.0
1215	37.6
1235	38.8
1255	38.6
1305	43.2
1320	39.0
1325	38.4
1400	38.0
1405	38.2
1425	39.2
1430	36.2
1440	40.6
1515	39.6
1525	38.4
1530	38.4
1535	38.4
1545	39.0
1550	35.0
1605	34.2
1615	36.0
1620	35.6
1635	35.0

$$\begin{aligned}\Sigma X &= 754.6 \\ N &= 20 \\ \bar{X} &= 37.7\end{aligned}$$

$$\begin{aligned}\Sigma X &= 906.8 \\ N &= 24 \\ \bar{X} &= 37.7\end{aligned}$$

Uma INORNATA TEMPS (BY MONTH)

FEBRUARY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
35.0	1225.00														
31.0	961.00														
<u>36.8</u>	1354.24														
<u>37.6</u>	1413.76														
36.4	1324.96														
<u>38.2</u>	1459.24														
<u>38.4</u>	1474.56														
38.6	1489.96														
32.8	1075.84														
36.2	1310.44														
36.0	1296.00														
37.2	1383.84														
37.0	1369.00														
<u>38.8</u>	1505.44														
<u>37.4</u>	1398.76														
<u>36.2</u>	1310.44														
<u>40.0</u>	1600.00														

$$\Sigma x = 623.6$$

$$N = 17$$

$$\Sigma x^2 = 22,952.48$$

$$\bar{x} = 36.68$$

$$(\bar{x})^2 = 1345.42$$

$$s^2 = 5.02$$

$$S.E. = \sqrt{.295}$$

$$= .543$$

$$\text{Range} = 31.0 \text{ to } 40.0$$

$$\bar{x} = 36.7$$

$$S.E. = 35.6 - 37.8$$

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Uma INORNATA TEMPS
(BY MONTH)
MARCH

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
38.8	1505.44	33.6	1128.96								
37.7	1421.29	33.2	1102.24								
38.3	1466.89	39.4	1552.36								
43.0	1849.00	42.5	1806.25								
36.9	1361.61	38.4	1474.56								
35.4	1253.16	38.0	1444.00								
25.8	665.64	35.8	1281.64								
36.8	1354.24	38.4	1474.56								
37.5	1406.25	38.2	1459.24								
36.9	1361.61	ΣX = 1413.0									
38.0	1444.00	N = 39									
33.2	1102.24										
37.5	1406.25	36.4	1324.96								
37.5	1406.25	38.2	1459.24								
39.0	1521.00	37.2	1383.84								
35.8	1281.64	36.6	1339.56								
36.4	1324.96	37.0	1369.00								
36.5	1332.25	38.0	1444.00								
37.6	1413.76	38.6	1489.96								
35.8	1281.64	35.0	1225.00								
34.6	1197.16	38.0	1444.00								
34.0	1156.00	37.4	1398.76								
29.5	870.25	35.8	1281.64								
33.8	1142.44	37.0	1369.00								
32.0	1024.00	38.0	1444.00								
35.2	1239.04	35.0	1225.00								
36.0	1296.00	36.0	1296.00								
35.0	1225.00	37.4	1398.76								
35.2	1239.04	2004.6 = ΣX									
35.8	1281.64	N = 55									

$$\bar{X} = 36.44$$

$$(\bar{X})^2 = 1327.87$$

$$S^2 = 7.66$$

$$S.E. = \sqrt{.139}$$

$$= .373$$

$$\text{RANGE } 25.8 - 43.0$$

$$2SE \cdot 8 = 37.2 - 35.6$$

$$\Sigma X^2 = 73,446.22$$

Uma INORNATA TEMPS (BY MONTH) APRIL

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
36.4	1324.96	36.0	1296.00								
37.0	1369.00	39.0	1521.00								
35.8	1281.64	37.0	1369.00								
36.0	1296.00	37.0	1369.00								
36.6	1339.56	37.6	1413.76								
40.0	1600.00	35.8	1281.64								
39.6	1568.16	40.4	1632.16								
38.4	1474.56	38.2	1459.24								
36.8	1354.24	37.0	1369.00								
31.8	1011.24	39.0	1521.00								
34.7	1204.09	38.0	1444.00								
36.6	1339.56	39.0	1521.00								
37.5	1406.25	36.8	1354.24								
37.6	1413.76	40.0	1600.00								
38.5	1482.25	38.0	1444.00								
35.2	1239.04	38.6	1489.96								
38.8	1505.44	37.4	1398.76								
37.2	1383.84	38.0	1444.00								
34.0	1156.00	36.0	1296.00								
37.8	1428.84	38.6	1489.96								
37.6	1413.76	$\Sigma x = 1868.1$									
37.2	1383.84	$N = 50$									
37.4	1398.76	$\Sigma x^2 = 1424.24$									
36.6	1339.56	$\bar{x} = 37.36$									
39.2	1536.64	$\bar{x}^2 = 1395.76$									
39.6	1568.16	$s^2 = 2.77$									
38.8	1505.44	$s = 1.66$									
36.8	1354.24	$= 2.41$									
34.6	1197.16	$2.56 = 1.5 = 37.36$									
36.6	1339.56										

$\Sigma x = 1110.7$
 $N = 30$

Uma INORNATA TEMPS (BY MONTH)

MAY

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
38.6	1489.96	40.6	1648.36	35.0	1225.00						
39.4	1552.36	42.0	1764.00	$\Sigma X = 2285.9$							
38.2	1459.24	36.6	1339.56	$N = 60$							
38.4	1474.56	36.2	1310.44	$\Sigma X^2 = 1450.16$							
38.0	1444.00	39.4	1552.36	$\bar{X} = 38.09$							
38.0	1444.00	32.4	1049.76	$\bar{X}^2 = 1450.84$							
39.2	1536.64	33.6	1128.96	$\Sigma X^2 = 1450.16$							
40.6	1648.36	35.8	1281.64	$\Sigma X^2 = 1450.16$							
40.0	1600.00	36.0	1296.00	$\Sigma X^2 = 1450.16$							
39.0	1521.00	36.4	1324.96	$\Sigma X^2 = 1450.16$							
38.2	1459.24	37.0	1369.00	$\Sigma X^2 = 1450.16$							
40.6	1648.36	37.6	1413.76	$\Sigma X^2 = 1450.16$							
38.4	1474.56	38.8	1505.44	$\Sigma X^2 = 1450.16$							
40.4	1632.16	38.6	1489.96	$\Sigma X^2 = 1450.16$							
39.4	1552.36	43.2	1866.24	$\Sigma X^2 = 1450.16$							
38.1	1451.61	39.0	1521.00	$\Sigma X^2 = 1450.16$							
$\Sigma X = 624.5$		38.4	1474.56	$\Sigma X^2 = 1450.16$							
$N = 16$		38.0	1444.00	$\Sigma X^2 = 1450.16$							
		38.2	1459.24	$\Sigma X^2 = 1450.16$							
		38.0	1444.00	$\Sigma X^2 = 1450.16$							
		39.2	1536.64	$\Sigma X^2 = 1450.16$							
		34.8	1211.04	$\Sigma X^2 = 1450.16$							
		36.2	1310.44	$\Sigma X^2 = 1450.16$							
		37.4	1398.76	$\Sigma X^2 = 1450.16$							
		40.6	1648.36	$\Sigma X^2 = 1450.16$							
		36.4	1324.96	$\Sigma X^2 = 1450.16$							
		39.6	1568.16	$\Sigma X^2 = 1450.16$							
		37.4	1398.76	$\Sigma X^2 = 1450.16$							
		38.4	1474.56	$\Sigma X^2 = 1450.16$							
		38.2	1459.24	$\Sigma X^2 = 1450.16$							
		38.4	1474.56	$\Sigma X^2 = 1450.16$							
		38.0	1444.00	$\Sigma X^2 = 1450.16$							
		38.4	1474.56	$\Sigma X^2 = 1450.16$							
		37.4	1398.76	$\Sigma X^2 = 1450.16$							
		39.0	1521.00	$\Sigma X^2 = 1450.16$							
		39.0	1521.00	$\Sigma X^2 = 1450.16$							
		35.0	1225.00	$\Sigma X^2 = 1450.16$							
		39.0	1521.00	$\Sigma X^2 = 1450.16$							
		34.2	1169.64	$\Sigma X^2 = 1450.16$							
		42.0	1764.00	$\Sigma X^2 = 1450.16$							
		36.0	1296.00	$\Sigma X^2 = 1450.16$							
		40.4	1632.16	$\Sigma X^2 = 1450.16$							
		35.6	1267.36	$\Sigma X^2 = 1450.16$							

JUNE

— *Journal of the American Medical Association*, 1997

Uma INORNATA TEMPS (BY MONTH)

JULY

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
<u>38.4</u>	1474.56	<u>38.0</u>	1444.00	<u>34.8</u>	1211.04						
<u>38.0</u>	1444.00	<u>42.0</u>	1764.00	<u>40.8</u>	1664.64						
<u>38.5</u>	1482.25	<u>38.5</u>	1482.25	<u>38.0</u>	1444.00						
<u>39.0</u>	1521.00	<u>39.2</u>	1536.64	<u>39.2</u>	1536.64						
<u>37.2</u>	1383.84	<u>39.4</u>	1552.36	<u>37.6</u>	1413.76						
<u>39.4</u>	1552.36	<u>37.8</u>	1428.84	<u>38.8</u>	1505.44						
<u>40.0</u>	1600.00	<u>36.8</u>	1354.24	<u>39.0</u>	1521.00						
<u>40.1</u>	1608.01	<u>40.2</u>	1616.04	<u>40.8</u>	1664.64						
<u>40.4</u>	1632.16	<u>41.4</u>	1713.96	<u>37.4</u>	1398.76						
<u>39.5</u>	1560.25	<u>41.4</u>	1713.96	<u>39.0</u>	1521.00						
<u>41.7</u>	1738.89	$\Sigma x = 1590.6$		<u>40.4</u>	1632.16						
<u>41.3</u>	1705.69	$N = 40$		<u>38.0</u>	1444.00						
<u>43.0</u>	1849.00			<u>41.0</u>	1681.00						
<u>41.9</u>	1755.61	<u>40.2</u>	1616.04	<u>41.6</u>	1730.56						
<u>41.9</u>	1755.61	<u>33.4</u>	1115.56	<u>40.0</u>	1600.00						
<u>41.8</u>	1747.24	<u>31.4</u>	985.96	<u>39.4</u>	1552.36						
<u>41.9</u>	1755.61	<u>35.6</u>	1267.36	<u>40.4</u>	1632.16						
<u>42.8</u>	1831.84	<u>37.0</u>	1369.00	<u>37.4</u>	1398.76						
<u>37.2</u>	1383.84	<u>36.6</u>	1339.56	<u>36.8</u>	1354.24						
<u>38.4</u>	1474.56	<u>35.0</u>	1225.00	<u>40.8</u>	1664.64						
<u>32.6</u>	1062.76	<u>37.6</u>	1413.76	$\Sigma x = 3000.7$							
<u>36.2</u>	1310.44	<u>40.0</u>	1600.00	$N = 77$							
<u>37.8</u>	1428.84	<u>37.0</u>	1369.00	$\Sigma x^2 = 117,360.77$							
<u>40.1</u>	1608.01	<u>36.4</u>	1324.96	$\bar{x} = 39.0$							
<u>40.5</u>	1640.25	<u>38.0</u>	1444.00	$\bar{x}^2 = 1521.00$							
<u>43.0</u>	1849.00	<u>36.0</u>	1296.00	$\Sigma x^2 - N\bar{x}^2 = 11,139.77$							
<u>39.5</u>	1560.25	<u>38.7</u>	1497.69	$\sqrt{11,139.77} = 105.54$							
<u>43.5</u>	1892.25	<u>39.3</u>	1544.49	$\sigma = 105.54$							
<u>40.5</u>	1640.25	<u>39.1</u>	1528.81	$\sigma^2 = 11,139.77$							
<u>39.8</u>	1584.04	<u>37.6</u>	1413.76	$\sigma^2 = 11,139.77$							

AUGUST

$$\bar{X} = 1465.16$$

Uma INORNATA TEMPS
(BY MONTH)
SEPTEMBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
34.0	1156.00										
40.2	1616.04										
37.0	1369.00										
41.4	1713.96										
40.8	1664.64										
43.4	1883.56										
41.4	1713.96										
41.6	1730.56										
44.0	1936.00										
46.6	1730.56										
38.8	1505.44										
38.0	1444.00										
40.2	1616.04										
42.8	1831.84										
38.0	1444.00										
37.4	1398.76										
41.1	1689.21										
35.7	1253.16										
39.0	1521.00										
39.6	1568.16										

$\Sigma x = 795.7$

$N = 20$

$\Sigma x^2 = 31,178.9$

$\bar{x} = 39.785$

$\Sigma (x - \bar{x})^2 = 2,440$

$s^2 = 122.0$

$s = 11.045$

$\sigma = 11.045$

RANGE = 34.0 - 46.6

Uma INORMATA TEMPS
(BY MONTH)
OCTOBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
37.8	1428.84										
38.5	1482.25										
40.2	1616.04										
36.0	1296.00										
32.6	1062.76										
38.0	1444.00										
39.0	1521.00										
37.0	1369.00										
37.2	1383.84										
35.0	1225.00										
36.4	1324.96										
36.6	1339.56										
35.4	1253.16										
35.6	1267.36										
37.2	1383.84										
37.6	1413.76										

$$\Sigma x = 590.1$$

$$N = 16$$

$$\Sigma x^2 = 21,911.37$$

$$\bar{x} = 36.88$$

$$\bar{y} = 1366.13$$

$$s^2 = 3.24$$

$$s.e. = \sqrt{3.24}$$

$$= 1.8$$

$$P.F.A.G.S. = 32.6 - 1.8 = 30.8$$

$$25.2 - 1.8 = 23.4$$

Uma WORNATA TEMPS
(BY MONTH)
NOVEMBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
36.2	1310.44										

$$n = 1$$

$$\sum x^2 = 1310.44$$

$$\sum x = 36.2$$

$$\bar{x} = 36.2$$

$$\bar{x}^2 = 1310.44$$

$$36.2$$

$$36.2$$

$$36.2$$

$$36.2$$

$$36.2$$

$$36.2$$

$$36.2$$

$$36.2$$

$$36.2$$

$$36.2$$

$$36.2$$

$$36.2$$

$$36.2$$

Total

1959-1963

$$\sum x = 15812.9$$

$$N = 416$$

$$\bar{x} = 38.0$$

$$15812.9$$

$$15812.9$$

$$15812.9$$

$$15812.9$$

$$15812.9$$

$$15812.9$$

$$15812.9$$

$$15812.9$$

$$15812.9$$

$$15812.9$$

Uma INORNATA TEMPS (BY SEX)



<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
38.4	1474.56	40.2	1616.04	41.5	1722.25	35.2	1239.04	40.2	1616.04	36.0	1296.00
39.0	1521.00	36.2	1310.44	38.4	1474.56	35.8	1281.64	41.4	1713.96	39.0	1521.00
39.5	1560.25	38.8	1505.44	38.4	1474.56	33.2	1102.24	39.4	1552.36	37.0	1369.00
36.5	1332.25	37.7	1421.29	38.0	1444.00	37.8	1428.84	39.6	1568.16	37.0	1369.00
43.0	1849.00	38.3	1466.89	38.0	1444.00	37.6	1413.76	38.7	1497.69	37.6	1413.76
41.8	1747.24	36.9	1361.61	39.0	1521.00	37.2	1383.84	37.4	1398.76	35.8	1281.64
41.9	1755.61	36.8	1354.24	38.2	1459.24	36.6	1339.56	35.4	1253.16	40.4	1632.16
33.0	1089.00	37.5	1406.25	38.4	1474.56	39.2	1536.64	39.0	1521.00	38.2	1459.24
33.2	1102.24	36.9	1361.61	40.4	1632.16	39.6	1568.16	39.6	1568.16	37.0	1369.00
37.2	1383.84	37.5	1406.25	38.1	1451.61	36.8	1354.24	31.0	961.00	38.0	1444.00
42.2	1780.84	36.4	1324.96	38.2	1459.24	35.0	1225.00	36.8	1354.24	39.0	1521.00
34.4	1183.36	37.0	1369.00	38.4	1474.56	36.6	1339.56	36.4	1324.96	38.6	1489.96
40.4	1632.16	35.8	1281.64	40.2	1616.04	42.5	1806.25	38.2	1459.24	37.4	1398.76
36.7	1346.89	36.0	1296.00	38.2	1459.24	38.0	1444.00	38.4	1474.56	38.0	1444.00
35.2	1239.04	39.6	1568.16	35.8	1281.64	35.8	1281.64	32.8	1075.84	36.0	1296.00
36.2	1310.44	34.7	1204.09	41.5	1722.25	36.6	1339.56	36.0	1296.00	38.6	1489.96
39.4	1552.36	36.6	1339.56	44.0	1936.00	38.0	1444.00	37.0	1369.00	34.8	1211.04
38.6	1489.96	37.6	1413.76	36.2	1310.44	34.5	1190.25	38.8	1505.44	37.4	1398.76
39.5	1560.25	38.5	1482.25	37.8	1428.84	41.2	1697.44	37.4	1398.76	36.4	1324.96
41.2	1697.44	38.6	1489.96	39.5	1560.25	38.0	1444.00	36.2	1310.44	37.4	1398.76
41.6	1730.56	39.4	1552.36	43.5	1892.25	41.0	1681.00	36.4	1324.96	38.2	1459.24
42.7	1823.29	34.6	1197.16	37.8	1428.84	39.0	1521.00	37.2	1383.84	38.0	1444.00
42.4	1797.76	37.6	1413.76	34.5	1190.25	35.8	1281.64	38.0	1444.00	37.4	1398.76
44.0	1936.00	36.5	1332.25	39.3	1544.49	41.5	1722.25	38.6	1489.96	39.0	1521.00
40.2	1616.04	40.7	1656.49	35.0	1225.00	36.8	1354.24	35.0	1225.00	39.0	1521.00
37.0	1369.00	44.0	1936.00	34.0	1156.00	43.5	1892.25	38.0	1444.00	40.4	1632.16
40.8	1664.64	39.0	1521.00	33.8	1142.44	38.0	1444.00	37.4	1398.76	40.6	1648.36
43.4	1883.56	35.8	1281.64	35.2	1239.04	42.0	1764.00	35.8	1281.64	36.2	1310.44
41.4	1713.96	38.8	1505.44	36.0	1296.00	38.5	1482.25	38.0	1444.00	39.4	1552.36
37.8	1428.84	37.2	1383.84	35.0	1225.00	39.2	1536.64	36.0	1296.00	32.4	1049.76

Uma inornata Temps.

(BY SEX)

07

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
33.6	1128.96	37.0	1369.00
35.8	1281.64	36.6	1339.56
36.0	1296.00	37.0	1369.00
37.0	1369.00	36.4	1324.96
38.8	1505.44	38.7	1497.69
39.0	1521.00	39.3	1544.49
38.0	1444.00	34.8	1211.04
39.2	1536.64	40.8	1664.64
40.6	1648.36	39.2	1536.64
39.6	1568.16	37.6	1413.76
38.4	1474.56	37.4	1398.76
39.0	1521.00	39.0	1521.00
35.0	1225.00	40.4	1632.16
34.2	1169.64	38.0	1444.00
35.6	1267.36	40.0	1600.00
36.0	1296.00	39.4	1552.36
40.0	1600.00	37.4	1398.76
36.0	1296.00	40.8	1664.64
38.2	1459.24	36.8	1354.24
36.6	1339.56	36.4	1324.96
40.0	1600.00	36.8	1354.24
37.6	1413.76	36.0	1296.00
36.6	1339.56	36.0	1296.00
39.0	1521.00		
37.0	1369.00		
38.2	1459.24		
37.0	1369.00		
33.4	1115.56		
40.2	1616.04		
31.4	985.96		
35.6	1267.36		

$$\Sigma X = 8685.3$$

$$N = 229$$

$$\bar{X} = 37.92$$

$$\Sigma X^2 = 314111.2$$

$$(\bar{X})^2 = 1437.12$$

$$N(\bar{X})^2 = 3270.98$$

$$\Sigma X^2 - N(\bar{X})^2 = 1110.22$$

$$= 1110.22$$

Uma INORNATA TEMPS (BY SEX)



<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
38.0	1444.00	36.0	1296.00	41.8	1747.24	32.0	1024.00	40.4	1632.16	36.4	1324.96
38.5	1482.25	43.0	1849.00	38.2	1459.24	33.6	1128.96	39.2	1536.64	37.6	1413.76
37.2	1383.84	35.4	1253.16	39.2	1536.64	37.4	1398.76	40.0	1600.00	38.6	1489.96
39.4	1552.36	25.8	665.64	40.6	1648.36	38.8	1505.44	40.3	1624.09	43.2	1866.24
40.0	1600.00	38.0	1444.00	40.0	1600.00	41.5	1722.25	39.8	1584.04	38.4	1474.56
40.1	1608.01	33.2	1102.24	40.6	1648.36	41.2	1697.44	39.2	1536.64	38.2	1459.24
40.4	1632.16	37.5	1406.25	39.4	1552.36	41.6	1730.56	38.4	1474.56	36.2	1310.44
41.7	1738.89	36.6	1339.56	38.1	1451.61	38.8	1505.44	38.2	1459.24	38.4	1474.56
41.3	1705.69	40.0	1600.00	40.4	1632.16	38.0	1444.00	38.0	1444.00	38.4	1474.56
41.9	1755.61	38.4	1474.56	41.0	1681.00	40.2	1616.04	41.1	1689.21	36.0	1296.00
41.9	1755.61	36.8	1354.24	32.6	1062.76	42.8	1831.84	37.6	1413.76	35.0	1225.00
42.8	1831.84	36.8	1011.24	40.1	1608.01	37.2	1383.84	37.6	1413.76	34.2	1169.64
35.3	1246.09	37.5	1406.25	40.5	1640.25	36.4	1324.96	38.6	1489.96	36.2	1310.44
35.6	1267.36	35.2	1239.04	43.0	1849.00	35.4	1253.16	36.2	1310.44	34.2	1169.64
38.6	1489.96	37.2	1383.84	36.8	1354.24	35.6	1267.36	37.2	1383.84	37.6	1413.76
38.6	1489.96	36.6	1339.56	38.2	1459.24	37.2	1383.84	40.0	1600.00	36.5	1332.25
38.8	1505.44	35.8	1281.64	39.0	1521.00	39.4	1552.36	38.2	1459.24	37.0	1369.00
32.4	1049.76	34.0	1156.00	38.0	1444.00	38.4	1474.56	36.6	1339.56	37.2	1383.84
38.4	1474.56	38.2	1459.24	38.6	1489.96	34.6	1197.16	37.0	1369.00	37.4	1398.76
30.7	942.49	36.6	1339.56	38.6	1489.96	35.0	1225.00	37.0	1369.00	40.2	1616.04
35.0	1225.00	40.6	1648.36	36.4	1324.96	38.8	1505.44	35.0	1225.00	37.4	1398.76
37.5	1406.25	37.2	1383.84	33.8	1142.44	36.0	1296.00	37.4	1398.76	38.0	1444.00
38.6	1489.96	37.7	1421.29	37.2	1383.84	43.0	1849.00	39.0	1521.00	38.0	1444.00
42.3	1789.29	40.4	1632.16	36.2	1310.44	41.2	1697.44	36.8	1354.24	35.0	1225.00
42.2	1780.84	32.6	1062.76	37.8	1428.84	40.5	1640.25	40.0	1600.00	37.6	1413.76
38.9	1513.21	38.0	1444.00	41.4	1713.96	39.8	1584.04	38.0	1444.00	40.0	1600.00
34.0	1156.00	39.0	1521.00	38.2	1459.24	39.4	1552.36	38.0	1444.00	38.0	1444.00
41.4	1713.96	36.4	1324.96	39.6	1568.16	37.8	1428.84	42.0	1764.00	36.0	1296.00
41.6	1730.56	39.5	1560.25	37.0	1369.00	36.8	1354.24	42.0	1764.00	39.1	1528.81
38.5	1482.25	40.5	1640.25	29.5	870.25	41.4	1713.96	36.6	1339.56	37.6	1413.76

Uma inornata Temps.

(By Sex)

♀

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
38.0	1444.00		
38.8	1505.44		
39.0	1521.00		
40.8	1664.64		
41.0	1681.00		
41.6	1730.56		
40.4	1632.16		
36.8	1354.24		

$$\Sigma X = 7164.1$$

$$N = 188$$

$$\bar{X} = 38.10$$

$$\Sigma X^2 = 135424$$

$$\bar{X} = 38.10$$

Uma INORNATA TEMPS (BY AGE) ADULT

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
38.0	1444.00	34.0	1156.00	35.2	1239.04	38.1	1451.61	39.3	1544.49	42.8	1831.84
37.2	1383.84	37.0	1369.00	38.6	1489.96	38.2	1459.24	39.6	1568.16	37.2	1383.84
39.4	1552.36	41.4	1713.96	39.4	1552.36	40.2	1616.04	37.0	1369.00	35.0	1225.00
40.0	1600.00	48.4	1883.56	37.2	1383.84	38.2	1459.24	35.0	1225.00	36.4	1324.96
40.1	1608.01	41.4	1713.96	34.0	1156.00	40.4	1632.16	34.0	1156.00	36.6	1339.56
40.4	1632.16	41.6	1730.56	38.2	1459.24	41.0	1681.00	28.5	810.25	35.4	1253.16
41.7	1738.89	38.5	1482.25	36.6	1339.56	35.8	1281.64	33.8	1142.44	35.6	1267.36
41.3	1705.69	40.2	1616.04	40.6	1648.36	41.5	1722.25	32.0	1024.00	37.2	1383.84
43.0	1849.00	37.7	1310.44	37.2	1383.84	44.0	1936.00	35.2	1239.04	39.4	1552.36
41.9	1755.61	38.3	1466.89	40.7	1656.49	32.6	1062.76	36.8	1296.00	42.5	1806.25
41.9	1755.61	43.0	1849.00	37.7	1421.29	36.2	1310.44	35.0	1225.00	38.4	1474.56
41.8	1747.24	35.4	1253.16	40.4	1632.16	37.8	1428.84	35.2	1239.04	38.0	1444.00
41.9	1755.61	25.8	665.64	39.5	1560.25	40.1	1608.01	35.8	1281.64	35.8	1281.64
42.8	1831.84	36.8	1354.24	40.5	1640.25	40.5	1640.25	33.6	1128.96	34.6	1197.16
35.3	1246.09	36.9	1361.61	41.5	1722.25	43.0	1849.00	33.2	1102.24	36.6	1339.56
33.2	1102.24	38.0	1444.00	41.8	1747.24	43.5	1892.25	37.8	1428.84	35.0	1225.00
38.6	1489.96	33.2	1102.24	38.2	1459.24	37.8	1428.84	37.6	1413.76	38.0	1444.00
38.6	1489.96	37.5	1406.25	38.4	1474.56	34.5	1190.25	37.2	1383.84	34.5	1190.25
42.2	1780.84	37.5	1406.25	38.0	1444.00	36.8	1354.24	37.4	1398.76	38.8	1505.44
38.8	1505.44	37.0	1369.00	38.0	1444.00	38.2	1459.24	36.6	1339.56	36.0	1296.00
30.7	942.49	35.8	1281.64	39.2	1536.64	39.0	1521.00	39.2	1536.64	41.2	1697.44
35.0	1225.00	36.6	1339.56	40.6	1648.36	38.00	1444.00	39.6	1568.16	38.0	1444.00
36.2	1310.44	40.0	1600.00	40.0	1600.00	38.6	1489.96	38.8	1505.44	43.0	1849.00
37.5	1406.25	37.5	1406.25	39.0	1521.00	38.6	1489.96	36.8	1354.24	41.0	1681.00
38.6	1489.96	38.4	1474.56	38.2	1459.24	33.8	1142.44	41.5	1722.25	39.0	1521.00
42.3	1789.29	31.8	1011.24	40.6	1648.36	37.2	1383.84	41.2	1697.44	35.8	1281.64
41.6	1730.56	34.7	1204.09	38.4	1474.56	36.2	1310.44	41.6	1730.56	41.5	1722.25
38.9	1513.21	36.6	1339.56	40.4	1632.16	37.8	1428.84	38.8	1505.44	41.2	1697.44
42.7	1823.29	37.6	1413.76	39.4	1552.36	41.4	1713.96	38.0	1444.00	36.8	1354.24
44.0	1936.00	38.5	1482.25	38.1	1451.61	38.2	1459.24	40.2	1616.04	43.5	1892.25

Uma WORNATA TEMPS
(BY AGE)

ADULT

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
40.5	1640.25	36.4	1324.96	42.0	1764.00	40.0	1600.00	41.0	1681.00		
39.8	1584.04	38.2	1459.24	36.6	1339.56	37.6	1413.76	41.6	1730.56		
38.0	1444.00	38.0	1444.00	36.2	1310.44	36.6	1339.56	40.0	1600.00		
42.0	1764.00	38.6	1489.96	39.4	1552.36	39.0	1521.00	39.4	1552.36		
38.5	1482.25	38.0	1444.00	32.4	1049.76	37.0	1369.00	40.4	1632.16		
39.2	1536.64	38.0	1444.00	33.6	1128.96	37.0	1369.00	36.8	1354.24		
39.4	1552.36	36.0	1296.00	35.8	1281.64	33.4	1115.56	40.8	1664.64		
37.8	1428.84	37.4	1398.76	36.0	1296.00	40.2	1616.04				
36.8	1354.24	36.0	1296.00	36.4	1324.96	31.4	985.96				
40.2	1616.04	39.0	1521.00	37.0	1369.00	35.6	1267.36				
41.4	1713.96	37.0	1369.00	37.6	1413.76	37.0	1369.00				
41.4	1713.96	37.6	1413.76	38.6	1489.96	36.6	1339.56				
40.4	1632.16	35.8	1281.64	38.2	1459.24	35.0	1225.00				
39.2	1536.64	40.4	1632.16	39.2	1536.64	37.6	1413.76				
40.0	1600.00	37.0	1369.00	36.2	1310.44	40.0	1600.00				
40.3	1624.09	39.0	1521.00	38.4	1474.56	36.4	1324.96				
39.4	1552.36	38.0	1444.00	38.4	1474.56	38.0	1444.00				
39.8	1584.04	36.8	1354.24	38.4	1474.56	36.0	1296.00				
39.2	1536.64	38.0	1444.00	35.0	1225.00	38.7	1497.69				
39.6	1568.16	38.6	1489.96	36.0	1296.00	39.3	1544.49				
38.7	1497.69	34.8	1211.04	35.6	1267.36	37.6	1413.76				
38.0	1444.00	37.4	1398.76	35.0	1225.00	34.8	1211.04				
37.4	1398.76	37.4	1398.76	36.5	1332.25	39.2	1536.64				
41.1	1689.21	38.2	1459.24	37.0	1369.00	38.8	1505.44				
35.4	1253.16	38.0	1444.00	37.2	1383.84	39.0	1521.00				
39.0	1521.00	39.0	1521.00	37.4	1398.76	40.8	1664.64				
39.6	1568.16	39.0	1521.00	40.2	1616.04	37.4	1398.76				
38.4	1474.56	42.0	1764.00	37.4	1398.76	39.0	1521.00				
32.8	1075.84	40.4	1632.16	38.0	1444.00	40.4	1632.16				
37.2	1383.84	40.6	1648.36	38.2	1459.24	38.0	1444.00				

$$\Sigma X = 11714.2$$

$$N = 307$$

$$\bar{X} = 38.15$$

$$\Sigma X^2 = 444441.2$$

$$(\bar{X})^2 = 1455.22$$

$$s^2 = 6.1$$

$$s = 2.47$$

$$= 2.47$$

Uma INORNATA TEMPS
(BY AGE)
IMMATURE

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
38.4	1474.56	36.8	1354.24	38.8	1505.44	39.0	1521.00				
38.5	1482.25	39.6	1568.16	37.4	1398.76	34.2	1169.64				
39.0	1521.00	36.6	1339.56	36.2	1310.44	34.2	1169.64				
39.5	1560.25	34.6	1197.16	40.0	1600.00	36.0	1296.00				
36.5	1332.25	35.8	1281.64	37.2	1383.84	40.0	1600.00				
33.0	1089.00	37.6	1413.76	36.6	1339.56	36.2	1310.44				
37.2	1383.84	36.5	1332.25	37.0	1369.00	34.2	1169.64				
35.6	1267.36	44.0	1936.00	35.0	1225.00	37.6	1413.76				
34.4	1183.36	32.6	1062.76	37.4	1398.76	36.0	1296.00				
32.4	1049.76	38.0	1444.00	35.8	1281.64	38.0	1444.00				
40.4	1632.16	39.0	1521.00	37.0	1369.00	36.6	1339.56				
38.4	1474.56	39.0	1521.00	35.0	1225.00	38.2	1459.24				
36.7	1346.89	35.8	1281.64	37.0	1369.00	37.0	1369.00				
35.2	1239.04	36.4	1324.96	38.2	1459.24	39.1	1528.81				
39.4	1552.36	38.8	1505.44	39.0	1521.00	40.8	1664.64				
39.5	1560.25	37.2	1383.84	40.0	1600.00	38.0	1444.00				
38.6	1489.96	38.4	1474.56	37.4	1398.76	37.6	1413.76				
42.2	1780.84	38.4	1474.56	38.0	1444.00	37.4	1398.76				
41.2	1697.44	39.5	1560.25	36.0	1296.00	37.6	1413.76				
42.4	1797.76	36.4	1324.96	38.6	1489.96	38.6	1489.96				
40.2	1616.04	38.4	1474.56	38.0	1444.00						
40.8	1664.64	38.2	1459.24	36.4	1324.96						
37.8	1428.84	31.0	961.00	37.4	1398.76						
36.0	1296.00	36.8	1354.24	38.8	1505.44						
36.2	1310.44	37.6	1413.76	43.2	1866.24						
38.8	1505.44	36.4	1324.96	39.0	1521.00						
36.9	1361.61	38.2	1459.24	38.4	1474.56						
37.5	1406.25	36.2	1310.44	38.0	1444.00						
36.4	1324.96	36.0	1296.00	40.6	1648.36						
36.0	1296.00	37.0	1369.00	39.6	1568.16						

$$\Sigma X = 4135.2$$

$$N = 110$$

$$\bar{X} = 37.57$$

$$\Sigma X^2 = 155000.00$$

$$(\bar{X})^2 = 1411.58$$

$$S^2 = 1.41$$

Time in hours

1/2

1/4

36.2 12.44

36.6 13.46

40.4 16.26

52.0 24.00

TIME Uma inornata ARE ACTIVE, BY MONTH

(N =)

TIME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
0500												
0530								1				
0600						///						
0630												
0700			1	1	 	 	 	 				
0730					 	 	 	 	 			
0800				 	 	 	 	 	 			
0830				 	 	 	 	 	 			
0900		1	 	 	 	 	 	 	 			
0930				 	 	 	 	 		1		
1000	1	 	 	 	 	 	 	 			1	
1030		 		 	 	 	 	 		 		
1100	 	 	 	 	 	 	 	 		 	1	
1130	 	 	 	 	 	 	 	 		 		
1200		 	 	 	 	 	 	 	 			
1230	 		 	 	 	 	 	 	 			
1300	1		 	 	 	 	 	 	 			
1330	 		 	 	 	 	 	 	 			
1400		 	 	 	 	 	 	 	 			
1430	 	 	 	 	 	 	 	 	 			
1500	1	 	 	 	 	 	 	 	 			
1530		 	 	 	 	 	 	 	 			
1600	1	 	 	 	 	 	 	 	 			
1630		 		 	 	 	 	 	 			
1700		1		1								
1730												
1800												
1830												
1900												
1930												

* (|||) = in shade (deep) at Palm Springs Panorama.

Uma
notata

Uma
notata

AM

(Uma nota / comp's 2)
(April 13, 1965)

0.001-0.000 1000

<u>0900</u>	<u>1500</u>	<u>1100</u>	<u>1200</u>
X	X	X	X
X ²	X ²	X ²	X ²
34.8 1211.04	36.2 1310.44	33.0 1089.00	40.0 1600.00
34.0 1156.00	31.2 973.44	34.0 1156.00	31.0 961.00
31.2 973.44	33.2 1102.24	37.0 1369.00	35.0 1225.00
	34.2 1169.64	33.6 1128.96	30.4 924.16
	35.0 1225.00	41.4 1713.96	36.8 1354.24
	32.0 1024.00	37.4 1398.76	
	38.4 1474.56	34.0 1156.00	
	40.0 1600.00	37.5 1406.25	
	35.8 1281.64		
	31.0 961.00		
	34.2 1169.64		
	37.5 1406.25		
	36.2 1310.44		
	34.8 1211.04		
	34.6 1197.16		
	40.4 1632.16		

$$N = 3$$

$$\sum X = 100.0$$

$$\sum X^2 =$$

$$\bar{X} = 33.3$$

$$\text{Range} = 31.2 -$$

$$\bar{X} = 34.8$$

$$16$$

$$566.71$$

$$35.4$$

$$31.0 -$$

$$40.4$$

$$1571.0$$

$$8$$

$$237.9$$

$$36.0$$

$$33.0 -$$

$$41.4$$

$$5$$

$$195.1$$

$$37.0$$

$$36.8 -$$

$$41.5$$

AM

$$\sum X = 1147.8$$

$$\sum X^2 =$$

$$N = 32$$

$$\bar{X} = 35.9$$

$$\text{Range} = 31.5 - 41.4$$

P/M

Uma notata Temps. (°C)

(April 13 1965)

<u>1300</u>	<u>1400</u>	<u>1500</u>	<u>1600</u>	<u>1700</u>
<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
38.0	40.6	38.6	33.5	38.6
37.0	35.4	34.6	37.0	35.4
37.5	37.5	36.4	36.2	31.0
38.8	36.0	36.6	34.6	31.0
		36.2	33.4	28.2
		37.4	33.6	27.2
		35.5	33.7	34.0
		34.5	33.5	30.0
		36.2	36.5	30.0
		33.8		
			32.4	
			32.0	
			31.2	

N = 4	4	10	13	9
$\Sigma X = 151.3$	151.5	361.6	443.1	275.2
$\Sigma X^2 =$				
$\bar{X} = 37.8$	37.9	36.1	34.1	30.6
Range 37.0 - 38.8	35.4 - 40.6	33.8 - 36.6	31.2 - 37.4	28.2 - 34.0
$s^2 = 3.1$	4.0			
$s = 1.77$	2.0			

$\bar{X} = 11.2$
 $s^2 = 1.2$
 $s = 1.1$

P/M
 $\Sigma X = 1377.3$
 $\Sigma X^2 =$
 $N = 40$
 $\bar{X} = 34.4$
 Range 28.2 - 40.6

Culture
 Day
 15211
 17
 32.1
 28.2 - 41.4

Uma notata Temp.
(April 14, 1964)

0800		0900		1000		1100	
X	X ²	X	X ²	X	X ²	X	X ²
32.2	1036.84	35.2	1239.04	34.8	1211.04	36.0	1296.00
35.6	1267.36	31.3	979.69	34.6	1197.16	37.0	1369.00
36.0	1296.00	30.0	900.00	36.5	1332.25	37.0	1369.00
		31.4	985.96	37.2	1383.84	40.6	1648.36
		30.6	936.36	27.4	750.76	37.1	1377.61
		33.6	1128.96	35.4	1253.16	36.0	1296.00
		37.0	1369.00	31.2	973.44	32.7	1069.29
		33.6	1128.96	32.4	1049.76	34.0	1156.00
		31.2	973.44	39.3	1544.49	35.1	1232.01
		36.2	1310.44	36.0	1296.00	37.2	1383.84
		32.6	1061.76	37.5	1406.25	37.6	1413.76
		31.8	1011.24	38.0	1444.00	30.4	924.16
		37.0	1369.00	36.9	1361.61	35.4	1253.16
		33.5	1122.25	32.5	1056.25		
		30.8	948.64				
		32.0	1024.00				
		37.6	1413.76				
		34.4	1183.36				

N = 3	2	8	13	48
$\Sigma X = 103.8$	469.8	650.7	481.5	1713.4
$\Sigma X^2 = 32$				
$\bar{X} = 34.6$	33.6	36.6	37.5	35.7
Range = 32.2 - 36.0	30.0 - 37.0	27.4 - 42.2	33.5 - 41.6	27.4 - 42.0

Lima Notata Temps. (1958-1962)
(0800 to 1700 — April thru August)

					<u>Temp(°C)</u>	<u>No.</u>	<u>%</u>
34.4	37.6	39.6	43.4	$N = 93$	32	2	2
43.0	37.0	39.8	41.4	$\Sigma X = 3681.5$	33	2	2
41.5	38.0	37.1	38.6	$\bar{X} = 39.5$	34	3	3
42.8	32.6	41.0			35	1	1
44.7	40.5	38.1			36	6	6
38.2	41.8	36.4			37	8	8
40.6	40.6	34.1			38	10	10
45.3	41.6	39.0			39	12	12
42.8	40.6	42.8			40	12	12
39.0	43.6	42.4			41	12	12
43.5	44.2	42.6			42	7	7
37.2	36.4	41.1			43	11	11
36.4	31.8	41.0			44	5	5
36.2	38.4	39.9			45	2	2
40.5	34.1	41.2					
42.0	37.4	41.2					
39.1	38.0	42.4					
44.4	31.9	41.5					
40.5	39.2	38.6					
42.2	39.2	39.0					
40.4	37.8	41.2					
32.6	39.2	41.9					
37.2	35.2	39.0					
36.5	38.2	40.0					
43.0	36.4	44.4					
39.8	43.8	42.8					
39.7	38.6	40.0					
40.2	37.5	39.4					
36.8	38.5	43.4					
36.6	37.6	42.8					

April

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
34.6	1197.16	37.4	1398.76	33.6	1128.96	33.6	1128.96	36.2	1310.44
35.5	1260.25	37.5	1406.25	33.7	1135.69	36.2	1310.44	36.2	1310.44
29.6	876.16	37.5	1406.25	33.7	1135.69	36.2	1310.44	36.2	1310.44
30.5	930.25	40.0	1600.00	35.2	1239.04	35.6	1267.36	38.1	1451.61
29.8	888.04	41.0	1681.00	36.0	1296.00	36.6	1337.56	38.2	1457.64
31.5	992.25	37.0	1369.00	36.8	1354.24	37.0	1369.00	38.2	1457.64
34.8	1211.04	38.4	1474.56	37.2	1383.84	37.5	1406.25	40.4	1632.16
34.0	1156.00	36.8	1354.24	37.2	1383.84	37.5	1406.25	35.4	1253.16
31.2	973.44	38.0	1444.00	37.2	1383.84	37.5	1406.25	35.4	1253.16
36.2	1310.44	37.0	1369.00	37.2	1383.84	37.5	1406.25	35.4	1253.16
31.2	973.44	37.5	1406.25	37.2	1383.84	37.5	1406.25	35.4	1253.16
33.2	1102.24	36.8	1354.24	37.2	1383.84	37.5	1406.25	35.4	1253.16
37.2	1383.84	40.0	1600.00	37.2	1383.84	37.5	1406.25	35.4	1253.16
35.5	1260.25	35.0	1225.00	37.2	1383.84	37.5	1406.25	35.4	1253.16
31.5	992.25	39.0	1521.00	37.2	1383.84	37.5	1406.25	35.4	1253.16
35.4	1253.16	36.0	1296.00	37.2	1383.84	37.5	1406.25	35.4	1253.16
31.0	961.00	36.4	1324.96	37.2	1383.84	37.5	1406.25	35.4	1253.16
34.2	1169.64	36.0	1296.00	37.2	1383.84	37.5	1406.25	35.4	1253.16
39.5	1560.25	36.2	1310.44	37.2	1383.84	37.5	1406.25	35.4	1253.16
36.2	1310.44	36.2	1310.44	37.2	1383.84	37.5	1406.25	35.4	1253.16
34.6	1197.16	36.2	1310.44	37.2	1383.84	37.5	1406.25	35.4	1253.16
40.4	1632.16	36.2	1310.44	37.2	1383.84	37.5	1406.25	35.4	1253.16
33.0	1089.00	36.0	1296.00	37.2	1383.84	37.5	1406.25	35.4	1253.16
34.0	1156.00	36.0	1296.00	37.2	1383.84	37.5	1406.25	35.4	1253.16
37.0	1369.00	37.0	1369.00	37.2	1383.84	37.5	1406.25	35.4	1253.16
33.6	1128.96	36.2	1310.44	37.2	1383.84	37.5	1406.25	35.4	1253.16
41.4	1713.96	34.0	1156.00	37.2	1383.84	37.5	1406.25	35.4	1253.16

Uma not. it. Temp.

(8 Min)

(underlined - no change)

Jun	Feb	Mar	Apr
\bar{x} \bar{x}^2	\bar{x} \bar{x}^2	\bar{x} \bar{x}^2 \bar{x} \bar{x}^2	\bar{x} \bar{x}^2 \bar{x} \bar{x}^2
31.7 1004.89	25.2 635.04	29.4 864.36 20.6 424.36	40.4 1632.16 40.2 1616.04
34.2 1169.64	23.1 533.61	36.8 1354.24 $\Sigma x = 1017.5$	32.6 1062.76 39.0 1521.00
27.5 756.25	24.6 605.16	32.2 1036.84 $N = 29$	37.2 1383.84 42.0 1764.00
31.6 998.56	24.2 585.64	30.1 906.01 $\Sigma x^2 = 35,838.29$	36.5 1332.25 42.6 1814.76
31.8 1011.24	26.9 723.61	34.2 1169.64	43.0 1849.00 39.6 1568.16
31.8 1011.24	28.3 800.89	37.2 1383.84	39.8 1584.04 39.6 1568.16
$\Sigma x = 188.6$	19.0 361.00	28.2 795.24	39.7 1576.09 39.4 1552.36
$N = 6$	32.3 1043.29	27.3 745.29	40.2 1616.04 36.4 1324.16
$\Sigma x^2 = 5,951.82$	28.1 789.61	32.1 1030.41	36.8 1354.24 40.0 1600.00
$\bar{x} = 31.43$	31.1 967.21	34.5 1190.25	36.6 1338.56 39.2 1536.64
$\bar{x}^2 = 927.84$	34.2 1169.64	30.0 900.00	37.6 1413.76 36.2 1310.44
4.96	23.6 556.96	32.4 1049.76	37.0 1369.00 39.0 1521.00
5.96	32.7 1069.29	33.6 1128.96	38.0 1444.00 38.6 1489.96
0.909	30.4 924.16	40.1 1608.01	32.6 1062.76 $\Sigma x = 1624.8$
2.58 = 1.8	29.9 894.01	39.4 1552.36	40.5 1640.25 $N = 42$
3.42	30.2 912.04	38.0 1444.00	41.8 1747.24
	22.6 510.76	35.2 1239.04	40.6 1648.36 40.0 1600.00
	23.7 561.69	38.9 1513.21	41.6 1730.56 40.8 1664.64
	35.0 1225.00	39.7 1576.09	40.6 1648.36 37.0 1369.00
	25.0	25.0 625.00	43.6 1900.96 36.6 1338.56
	35.0	35.0 1225.00	44.2 1953.64 35.4 1253.16
	40.6	40.6 1648.36	36.4 1324.96
$\Sigma x = 525.1$	39.6 1568.16	37.2 1383.84	31.8 1011.24 1814.6
$N = 19$	37.2 1383.84	41.6 1730.56	38.4 1474.56 70,409.04
$\Sigma x^2 = 14,868.61$	43.6 1900.96	41.5 1722.25	34.1 1162.81
$\bar{x} = 27.63$	33.5 1122.25	33.5 1122.25	37.4 1398.76
$\bar{x}^2 = 763.42$	$\Sigma x = 996.9$	$N = 28$	38.0 1444.00
$\bar{x}^2 = 763.42$			39.0 1521.00
$\bar{x}^2 = 763.42$			37.0 1369.00
$\bar{x}^2 = 763.42$			$\Sigma x = 1113.0$
$\bar{x}^2 = 763.42$			$N = 29$

Uma notata Temp.

(B. Month)

May

X	X ²	X	X ²	X	X ²
35.8	1281.64	38.6	1489.96		
38.8	1505.44	$\Sigma X = 1164.3$			
42.8	1831.84	$N = 31$			
37.3	1391.29	37.0	1369.00		
31.9	1017.61	38.0	1444.00		
39.2	1536.64	33.6	1128.96		
39.2	1536.64	25.2	635.04		
37.8	1428.84	27.2	739.84		
39.2	1536.64	35.0	1225.00		
35.2	1239.04	39.6	1568.16		
38.2	1459.24	37.6	1413.76		
36.4	1324.96	37.6	1413.76		
43.8	1918.44	37.0	1369.00		
38.6	1489.96	37.2	1383.84		
37.5	1406.25	36.8	1354.24		
37.8	1428.84	37.0	1369.00		
35.2	1239.04	34.4	1183.36		
34.0	1156.00	32.4	1049.76		
35.4	1253.16	26.8	718.24		
32.7	1069.29	33.6	1128.96		
36.0	1296.00	30.6	936.36		
36.5	1332.25	33.0	1089.00		
36.0	1296.00	$\Sigma X = 1813.9$			
36.0	1296.00	$N = 50$			
38.5	1482.25	$\Sigma X^2 = 61411.51$			
37.6	1413.76	$\bar{X} = 36.27$			
39.6	1568.16	$(\bar{X})^2 = 1315.57$			
39.8	1584.04	$\Sigma X^2 = 1315.57$			
39.9	1592.01	$\Sigma X^2 = 1315.57$			
39.0	1521.00	$\Sigma X^2 = 1315.57$			

June

X	X ²	X	X ²	X	X ²
35.4	1253.16	36.6	1339.56	43.4	1883.56
34.8	1211.04	39.0	1521.00	46.2	2134.44
42.2	1780.84	38.8	1505.44	40.3	1624.09
40.2	1616.04	37.2	1383.84	42.3	1789.29
44.6	1989.16	40.3	1624.09	40.4	1632.16
38.1	1451.61	38.8	1505.44	40.6	1648.36
36.8	1354.24	37.0	1369.00		
36.8	1354.24	31.8	1011.24		
34.6	1197.16	$\Sigma X = 1390.3$			
34.6	1197.16	$N = 36$			
35.5	1260.25				
40.5	1640.25				
41.3	1705.69	39.6	1568.16		
37.1	1376.41	37.0	1369.00		
41.0	1681.00	38.4	1474.56		
38.1	1451.61	38.0	1444.00		
36.4	1324.96	38.0	1444.00		
34.1	1162.81	38.4	1474.56		
39.0	1521.00	38.4	1474.56		
42.8	1831.84	40.3	1624.09		
42.4	1797.76	39.7	1576.09		
42.6	1814.76	40.3	1624.09		
41.1	1689.21	43.4	1883.56		
41.0	1681.00	43.4	1883.56		
40.0	1600.00	33.0	1089.00		
$\Sigma X = 971.0$		41.6	1730.56		
$N = 25$		45.4	2061.16		
40.8	1664.64	41.0	1681.00		
39.0	1521.00	43.4	1883.56		
40.0	1600.00	42.2	1780.84		

Uma nitatà Temps

(B Month)

July

X	X ²	X	X ²	X	X ²
42.4	1797.76	39.9	1592.01	ΣX = 2376.1	
43.8	1918.44	41.2	1697.44	N = 60	
42.0	1764.00	41.2	1697.44	ΣX ² = 14000	
34.4	1183.36	42.4	1797.76	$\bar{X} = 39.6$	
43.6	1900.96	41.0	1681.00	$\bar{X}^2 = 1568.16$	
39.4	1552.36	41.0	1681.00		
38.8	1505.44	38.8	1505.44		
41.8	1747.24	39.0	1521.00		
39.4	1552.36	31.0	961.00		
36.2	1310.44	44.4	1971.36		
41.1	1689.21	42.8	1831.84		
40.7	1656.49	42.0	1764.00		
40.4	1632.16	40.2	1616.04		
39.2	1536.64	39.6	1568.16		
38.5	1482.25	45.6	2079.36		
37.9	1436.41	42.4	1797.76		
38.4	1474.56	40.6	1648.36		
38.2	1459.24	36.0	1296.00		
37.0	1369.00	44.8	2007.04		
36.7	1346.89	43.0	1849.00		
36.8	1354.24	41.2	1697.44		
36.0	1296.00	41.0	1681.00		
33.0	1089.00	41.2	1697.44		
34.2	1169.64	42.0	1764.00		
37.6	1413.76	30.0	900.00		
42.9	1840.41	42.8	1831.84		
43.4	1883.56	40.0	1600.00		
35.0	1225.00	41.0	1681.00		
35.9	1288.81	38.4	1474.56		
37.5	1406.25	39.4	1552.36		

Aug

X	X ²	X	X ²	X	X ²
41.0	1681.00	36.4	1324.96	38.8	1505.44
43.3	1874.89	36.2	1310.44	34.0	1156.00
42.4	1797.76	40.5	1640.25	39.4	1552.36
36.5	1332.25	42.0	1764.00	35.0	1225.00
40.0	1600.00	39.1	1528.81	43.4	1883.56
36.5	1332.25	44.4	1971.36	42.6	1814.76
30.5	930.25	40.5	1640.25	41.2	1697.44
40.2	1616.04	40.2	1616.04	41.2	1697.44
37.4	1398.76	36.2	1310.44	43.2	1866.24
44.2	1953.64	42.2	1780.84	43.6	1900.96
34.4	1183.36	41.5	1722.25	38.0	1444.00
43.0	1849.00	38.8	1505.44	38.6	1489.96
41.5	1722.25	38.6	1489.96	40.6	1648.36
36.8	1354.24	39.0	1521.00	43.4	1883.56
34.6	1197.16	39.8	1584.04	41.0	1681.00
29.8	888.04	34.6	1197.16	ΣX = 2971.8	
42.8	1831.84	41.2	1697.44	N = 75	
44.7	1998.09	43.0	1849.00	38.8	1505.44
35.6	1267.36	41.9	1755.61	N = 75	
36.8	1354.24	34.0	1156.00		
38.6	1489.96	39.2	1536.64		
38.2	1459.24	36.0	1296.00	$\bar{X} = 39.6$	
40.6	1648.36	42.8	1831.84	$\bar{X}^2 = 1568.16$	
36.8	1354.24	43.4	1883.56		
45.3	2052.09	42.8	1831.84		
42.8	1831.84	43.4	1883.56		
39.0	1521.00	41.4	1713.96		
35.7	1274.49	41.2	1697.44		
43.5	1892.25	39.8	1584.04		
37.2	1383.84	38.0	1444.00		

Uma notata Temp

(8 Month)

Sept

X	X ²	X	X ²	X	X ²
37.6	1413.76	38.9	1512.01	38.0	1444.00
40.9	1672.81	39.6	1568.16	37.0	1369.00
41.3	1705.69	<u>41.6</u>	1730.56	37.4	1398.76
43.7	1908.69	<u>41.0</u>	1681.00	37.4	1398.76
44.8	2007.04	<u>42.0</u>	1764.00	<u>41.6</u>	1730.56
41.5	1722.25	36.6	1339.56	$\Sigma X = 2538.9$	
43.0	1849.00	<u>36.5</u>	1332.25	$N = 65$	
43.4	1883.56	<u>38.0</u>	1444.00	$\Sigma X^2 = 9211.91$	
42.3	1789.29	36.8	1354.24	$\bar{X} = 39.06$	
41.6	1730.56	<u>36.0</u>	1296.00	$(\bar{X})^2 = 1525.68$	
40.6	1648.36	36.6	1339.56	$S^2 = 2.37$	
38.4	1474.56	<u>36.0</u>	1296.00	$SE = 1.113$	
39.6	1568.16	<u>29.0</u>	841.00	$= .376$	
37.9	1436.41	39.8	1584.04		
<u>37.4</u>	1398.76	<u>42.0</u>	1764.00		
33.0	1089.00	40.8	1664.64		
34.0	1156.00	40.8	1664.64		
35.8	1281.64	<u>37.4</u>	1398.76		
40.5	1640.25	40.4	1632.16		
<u>37.8</u>	1428.84	41.0	1681.00		
36.1	1303.21	<u>40.0</u>	1600.00		
37.5	1406.25	37.8	1428.84		
37.7	1421.29	42.0	1764.00		
37.7	1421.29	43.0	1849.00		
39.5	1560.25	41.0	1681.00		
<u>38.6</u>	1489.96	38.0	1444.00		
<u>39.2</u>	1536.64	38.0	1444.00		
38.6	1489.96	38.4	1474.56		
39.6	1568.16	36.8	1354.24		
39.7	1576.09	41.4	1713.96		

Oct

X	X ²	X	X ²	X	X ²
<u>28.8</u>	829.44	<u>41.0</u>	1681.00	42.4	1797.76
<u>41.0</u>	1681.00	<u>39.3</u>	1544.49	<u>40.0</u>	1600.00
<u>41.2</u>	1697.44	<u>39.0</u>	1521.00	<u>40.0</u>	1600.00
43.2	1866.24	<u>40.0</u>	1600.00	<u>40.2</u>	1616.04
<u>39.2</u>	1536.64	<u>45.4</u>	2061.16	39.4	1552.36
39.0	1521.00	<u>41.6</u>	1730.56	<u>37.4</u>	1398.76
39.2	1536.64	<u>42.6</u>	1814.76	<u>41.6</u>	1730.56
<u>40.6</u>	1648.36	<u>39.0</u>	1521.00	<u>30.0</u>	900.00
<u>41.6</u>	1730.56	<u>40.9</u>	1672.81	37.6	1413.76
39.4	1552.36	<u>40.0</u>	1600.00	$\Sigma X = 2658.5$	
<u>39.0</u>	1521.00	<u>39.2</u>	1536.64	$N = 68$	
<u>44.0</u>	1936.00	<u>24.8</u>	615.04	$\Sigma X^2 = 104700.45$	
<u>37.0</u>	1369.00	<u>36.4</u>	1324.96	$\bar{X} = 39.1$	
<u>40.6</u>	1648.36	<u>37.2</u>	1383.84	$\bar{X}^2 = 1528.81$	
<u>43.0</u>	1849.00	<u>35.6</u>	1267.36		
<u>39.2</u>	1536.64	<u>37.8</u>	1428.84		
39.5	1560.25	42.4	1797.76		
40.2	1616.04	<u>41.0</u>	1681.00		
<u>39.3</u>	1544.49	<u>35.7</u>	1274.49		
<u>38.2</u>	1459.24	<u>35.5</u>	1260.25		
<u>41.6</u>	1730.56	<u>40.6</u>	1648.36		
35.6	1267.36	<u>35.4</u>	1253.16		
<u>34.3</u>	1176.49	<u>36.2</u>	1310.44		
<u>39.6</u>	1568.16	<u>40.3</u>	1624.09		
<u>41.0</u>	1681.00	<u>36.4</u>	1324.96		
<u>38.4</u>	1474.56	<u>35.8</u>	1281.64		
<u>42.2</u>	1780.84	<u>39.0</u>	1521.00		
<u>40.4</u>	1632.16	<u>39.0</u>	1521.00		
<u>37.0</u>	1369.00	<u>42.8</u>	1831.84		
<u>41.3</u>	1705.69	<u>43.0</u>	1849.00		

Uma notata tempo

(by Min/h)

Nov

Δ	X
32.7	1069.29
31.8	1011.24
34.5	1190.25
31.4	985.96
35.0	1225.00
36.9	1361.61
36.5	1332.25
34.2	1169.64
28.2	795.24
39.1	1528.81
37.2	1383.84
33.1	1095.61

$$\Sigma X = 410.6$$

$$N = 12$$

$$\Sigma X^2 = 14149.74$$

$$\bar{X} = 34.21$$

$$(\bar{X})^2 = 1174.32$$

$$s^2 = 9.54$$

$$s = 3.09$$

$$s = 3.09$$

$$s = 3.09$$

$$s = 3.09$$

Total

1958-1963

$$\Sigma X = 17516.1$$

$$N = 462$$

$$\bar{X} = 37.9$$

$$N = 462$$

$$\Sigma X^2 = 18776.1$$

$$\bar{X} = 37.9$$

$$(\bar{X})^2 = 1440.81$$

$$\Sigma X^2 = 18776.1$$

$$s^2 =$$

$$s =$$

A 2

4

2

2

2

Uma notata Temp

(B sex)

07

X	X	X	X	X	X	X	X	X	X	X	X
31.6	998.56	39.1	1528.81	39.6	1568.16	29.9	894.01	38.2	1459.24	41.2	1697.44
23.1	533.61	39.2	1536.64	39.7	1576.09	23.7	561.69	36.4	1324.96	42.4	1797.76
29.4	864.36	38.5	1482.25	39.6	1568.16	35.0	1225.00	43.8	1918.44	41.0	1681.00
30.1	906.01	37.0	1369.00	41.6	1730.56	37.2	1383.84	38.6	1489.96	41.5	1722.25
41.0	1681.00	36.8	1354.24	41.0	1681.00	28.2	795.24	37.8	1428.84	38.6	1489.96
43.3	1874.89	36.0	1296.00	42.0	1764.00	32.1	1030.41	34.0	1156.00	39.0	1521.00
42.4	1797.76	37.6	1413.76	34.3	1176.49	34.5	1190.25	35.4	1253.16	39.8	1584.04
36.5	1332.25	34.4	1183.36	41.0	1681.00	32.7	1069.29	32.7	1069.29	41.2	1692.44
40.0	1600.00	43.0	1849.00	38.4	1474.56	38.9	1513.21	36.0	1296.00	41.9	1755.61
36.5	1339.56	34.6	1197.16	42.2	1780.84	44.4	1971.36	36.0	1296.00	36.5	1332.25
35.8	1281.64	29.8	888.04	40.4	1632.16	40.2	1616.04	36.0	1296.00	36.8	1354.24
38.8	1505.44	36.8	1354.24	41.0	1681.00	36.2	1310.44	38.5	1482.25	36.0	1296.00
37.3	1391.29	45.3	2052.09	39.3	1544.49	36.5	1332.25	37.6	1413.76	36.6	1339.56
35.4	1253.16	42.8	1831.84	39.0	1521.00	39.7	1576.09	39.8	1584.04	36.0	1296.00
40.2	1616.04	39.0	1521.00	45.4	2061.16	40.2	1616.04	39.0	1521.00	24.8	615.04
28.8	829.44	43.5	1892.25	41.6	1730.56	36.8	1354.24	36.8	1354.24	35.7	1274.49
41.0	1681.00	37.2	1383.84	42.6	1814.76	36.6	1339.56	34.6	1197.16	37.2	1383.84
41.2	1697.44	36.4	1324.96	40.9	1672.81	37.0	1369.00	34.6	1197.16	37.8	1428.84
41.6	1730.56	36.2	1310.44	31.8	1011.24	38.0	1444.00	41.0	1681.00	41.0	1681.00
39.4	1552.36	40.5	1640.25	34.5	1190.25	40.6	1648.36	36.4	1324.96	40.6	1648.36
40.6	1648.36	42.0	1764.00	31.4	985.96	40.6	1648.36	34.1	1162.81	35.4	1253.16
43.0	1849.00	40.9	1672.81	35.0	1225.00	43.6	1900.96	39.0	1521.00	36.2	1310.44
39.5	1560.25	43.4	1883.56	36.9	1361.61	44.2	1953.64	42.4	1797.76	40.6	1648.36
34.2	1169.64	40.6	1648.36	39.1	1528.81	36.4	1324.96	42.6	1814.76	41.6	1730.56
44.6	1989.16	38.4	1474.56	37.2	1383.84	34.1	1162.81	41.1	1689.21	43.6	1900.96
42.4	1797.76	37.4	1398.76	28.3	800.89	37.4	1398.76	41.0	1681.00	33.5	1122.25
43.8	1918.44	35.8	1281.64	28.1	789.61	31.9	1017.61	35.0	1225.00	38.6	1489.96
39.4	1552.36	37.7	1421.29	23.6	556.96	39.2	1536.64	35.9	1288.81	38.8	1505.44
38.8	1505.44	39.5	1560.25	32.7	1069.29	39.2	1536.64	37.5	1406.25	31.0	961.00
39.0	1521.00	38.6	1489.96	30.4	924.16	39.2	1536.64	41.2	1692.44	34.0	1156.00

Uma NOTATA TEMPS (BY SEX)

♂

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
29.0	841.00	39.4	1552.36	32.4	1049.76						
39.0	1521.00	35.0	1225.00	33.0	1089.00						
40.0	1600.00	43.4	1883.56	38.8	1505.44						
40.0	1600.00	42.6	1814.76	38.8	1505.44						
39.4	1552.36	41.2	1697.44								
41.6	1730.56	41.2	1697.44	33.6	1128.96						
30.0	900.00	48.6	2361.96	36.6	1338.36						
37.0	1369.00	38.0	1444.00								
40.0	1600.00	38.6	1489.96								
44.4	1971.36	43.4	1883.56	38.4	1474.56						
40.2	1616.04	41.0	1681.00	39.7	1576.09						
39.6	1568.16	40.8	1664.64	45.4	2061.16						
42.4	1797.76	40.8	1664.64	43.4	1883.56						
40.6	1648.36	40.0	1600.00	43.4	1883.56						
36.0	1296.00	37.8	1428.84	40.4	1632.16						
43.0	1849.00	42.0	1764.00								
41.2	1697.44	41.6	1730.56								
41.2	1697.44	37.4	1398.76								
42.0	1764.00	37.4	1398.76								
30.0	900.00	37.0	1369.00								
42.8	1831.84	41.4	1713.96								
40.0	1600.00	38.0	1444.00								
41.0	1681.00	41.0	1681.00								
38.4	1474.56	43.0	1849.00								
39.4	1552.36	33.1	1095.61								
39.2	1536.64	39.0	1521.00								
36.0	1296.00	42.0	1764.00								
41.2	1697.44	40.0	1600.00								
38.8	1505.44	38.6	1489.96								
34.0	1156.00	37.6	1413.76								
37.2	1383.84	37.0	1369.00								

$$\Sigma X = 9214.0$$

$$N = 242$$

$$\bar{X} = 38.0$$

$$N = 242$$

$$\Sigma X = 9272.9$$

$$\bar{X} = 38.3178$$

$$1.$$

$$2.$$

$$3.$$

$$\bar{X} = 38.3178$$

$$\bar{X} = 38.3178$$

$$4.$$

$$5.$$

$$6.$$

$$7.$$

$$8.$$

Uma nitata Temp.

(B - - x)

f

λ	X	λ	X	λ	X	λ	X	λ	X	λ	X
37.6	1413.76	41.8	1747.24	33.0	1089.00	32.4	1049.76	41.3	1705.69	43.0	1849.00
27.5	756.25	36.2	1310.44	34.0	1156.00	40.1	1608.01	37.1	1376.41	42.4	1797.76
31.8	1011.24	41.1	1689.21	40.5	1640.25	39.4	1552.36	38.1	1451.61	40.2	1616.04
31.8	1011.24	40.7	1656.49	37.8	1428.84	38.0	1444.00	42.8	1831.84	37.4	1398.76
24.6	605.16	40.4	1632.16	36.1	1303.21	35.2	1239.04	42.9	1840.41	39.0	1521.00
24.2	585.64	37.9	1436.41	37.5	1406.25	39.7	1576.09	43.4	1883.56	42.8	1831.84
26.9	723.61	38.4	1474.56	37.7	1421.29	42.2	1780.84	39.9	1592.01	42.0	1764.00
32.2	1036.84	38.2	1459.24	39.2	1536.64	40.4	1632.16	41.0	1681.00	45.6	2079.36
30.5	930.25	36.7	1346.89	38.6	1489.96	32.6	1062.76	38.8	1505.44	44.8	2007.04
40.2	1616.04	33.0	1089.00	39.9	1592.01	37.2	1383.84	34.6	1197.16	41.0	1681.00
37.4	1398.76	34.2	1169.64	35.6	1267.36	39.8	1584.04	39.4	1552.36	42.8	1831.84
44.2	1953.64	41.5	1722.25	39.6	1568.16	37.6	1413.76	39.4	1552.36	43.4	1883.56
42.8	1831.84	36.8	1354.24	32.0	1024.00	32.6	1062.76	43.0	1849.00	42.8	1831.84
34.8	1211.04	42.8	1831.84	41.3	1705.69	40.5	1640.25	36.6	1339.56	43.4	1883.56
42.2	1780.84	44.7	1998.09	40.0	1600.00	41.8	1747.24	38.0	1444.00	41.4	1713.96
43.2	1866.24	35.6	1267.36	39.0	1521.00	41.6	1730.56	35.6	1267.36	39.8	1584.04
39.2	1536.64	38.6	1489.96	40.0	1600.00	31.8	1011.24	42.4	1797.76	38.0	1444.00
39.0	1521.00	38.2	1459.24	39.2	1536.64	38.4	1474.56	35.7	1274.49	39.4	1552.36
39.2	1536.64	40.6	1648.36	32.7	1069.29	38.0	1444.00	35.5	1260.25	35.0	1225.00
40.6	1648.36	36.8	1354.24	36.5	1332.25	37.8	1428.84	40.3	1624.09	42.6	1814.76
39.0	1521.00	35.7	1274.49	34.2	1169.64	35.2	1239.04	36.4	1324.96	43.2	1866.24
44.0	1936.00	41.3	1705.69	28.2	795.24	37.5	1406.25	35.8	1281.64	43.6	1900.96
37.0	1369.00	43.7	1909.69	19.0	361.00	35.2	1239.04	25.0	625.00	39.8	1584.04
39.2	1536.64	44.8	2007.04	32.3	1043.29	36.5	1332.25	35.0	1225.00	42.0	1764.00
40.2	1616.04	41.5	1722.25	31.1	967.21	39.6	1568.16	39.6	1568.16	37.4	1398.76
39.3	1544.49	43.0	1849.00	34.2	1169.64	39.9	1592.01	37.2	1383.84	40.4	1632.16
38.2	1459.24	42.3	1789.29	30.2	912.04	38.1	1451.61	41.5	1722.25	41.0	1681.00
41.6	1730.56	41.6	1730.56	22.6	510.76	36.8	1354.24	39.0	1521.00	38.0	1444.00
42.0	1764.00	39.6	1568.16	27.3	745.29	35.3	1260.25	39.0	1521.00	36.8	1354.24
43.6	1900.96	37.9	1436.41	30.0	900.00	40.5	1640.25	42.8	1831.84	38.4	1474.56
38.0	1444.00	32.6	1062.76								

Uma notata Temps

(By Sex)

♀

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
40.2	1614.04	40.3	1624.09		
42.6	1814.76	37.0	1369.00		
39.6	1568.16	31.8	1011.24		
39.6	1568.16				
39.4	1552.36				
36.4	1324.96				
39.2	1536.64				
36.2	1310.44				
39.0	1521.00				
39.6	1568.16	39.6	1568.16		
37.6	1413.76				
37.0	1369.00				
36.8	1354.24				
34.4	1183.36				
26.8	718.24				
33.6	1128.96				
30.6	936.36				
37.0	1369.00				
38.0	1444.00				
33.6	1128.96				
25.2	635.04				
27.2	739.84				
35.0	1225.00				
45.8	1664.64				
39.0	1521.00				
40.0	1600.00				
36.0	1296.00				
39.0	1521.00				
38.8	1505.44				
37.2	1383.84				

$$\Sigma X = 8084.4$$

$$N = 213$$

$$\bar{X} = 37.9$$

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
40.0	1600.00		
40.8	1664.64		
37.0	1369.00		
35.4	1253.16		
<hr/>			
N = 218			
$\Sigma X = 8260.4$			
<hr/>			
$\Sigma X^2 = 316,107.74$			
<hr/>			
39.0	1521.00		
38.4	1474.56		
38.0	1444.00		
35.0	1225.00		
30.4	924.16		
40.3	1624.09		
40.3	1624.09		
43.4	1883.56		
43.4	1883.56		
33.0	1089.00		
41.6	1730.56		
41.0	1681.00		
42.2	1780.84		
40.0	1600.00		
40.8	1664.64		
42.3	1789.29		
40.6	1648.36		

$$\Sigma X = 8750.4$$

$$\Sigma X^2 = 316,107.74$$

$$\bar{X} = 40.6$$

$$N = 215$$

Uma notata Temp

$T = 80 + mm$

(B - A - C)

$T = 710 +$

Adult

X	X	X	X	X	X	X	X	X	X	X	X
41.0	1681.00	40.5	1640.25	34.5	1190.25	36.4	1324.96	36.4	1324.96	36.4	1324.96
43.3	1874.89	42.0	1764.00	32.4	1049.76	43.8	1918.44	34.1	1162.81	37.2	1383.84
42.4	1797.76	41.3	1705.69	33.6	1128.96	38.6	1489.96	39.0	1521.00	35.6	1267.36
35.8	1281.64	43.7	1909.69	38.9	1513.21	37.5	1406.25	42.8	1831.84	37.8	1428.84
38.8	1505.44	41.5	1722.25	44.4	1971.36	37.8	1428.84	42.4	1797.76	41.0	1681.00
42.2	1780.84	42.3	1789.29	40.5	1640.25	35.2	1239.04	41.1	1689.21	35.7	1274.49
40.2	1616.04	40.6	1648.36	40.2	1616.04	34.0	1156.00	41.0	1681.00	35.5	1260.25
39.2	1536.64	37.9	1436.41	36.2	1310.44	35.4	1253.16	42.9	1840.41	40.6	1648.36
39.5	1560.25	37.4	1398.76	32.6	1062.76	32.7	1069.29	43.4	1883.56	35.4	1253.16
39.3	1544.49	40.5	1640.25	43.0	1849.00	36.0	1296.00	35.9	1288.81	36.2	1310.44
38.2	1459.24	36.1	1303.21	39.7	1576.09	36.5	1332.25	37.5	1406.25	40.3	1624.09
39.1	1528.81	37.7	1421.29	40.2	1616.04	36.0	1296.00	39.9	1592.01	36.4	1324.96
36.2	1310.44	38.6	1489.96	36.6	1339.56	36.0	1296.00	41.2	1697.44	35.8	1281.64
40.7	1656.49	39.6	1568.16	37.6	1413.76	38.5	1482.25	41.2	1697.44	25.0	625.00
40.4	1632.16	41.6	1730.56	40.5	1640.25	37.6	1413.76	42.4	1797.76	35.0	1225.00
37.9	1436.41	42.0	1764.00	40.6	1648.36	39.6	1568.16	41.5	1722.25	40.6	1648.36
38.4	1474.56	39.6	1568.16	41.6	1730.56	39.8	1584.04	38.8	1505.44	39.6	1568.16
36.8	1354.24	41.0	1681.00	40.6	1648.36	39.9	1592.01	38.6	1489.96	41.6	1730.56
36.0	1296.00	40.0	1600.00	43.6	1900.96	39.0	1521.00	34.8	1197.16	33.5	1122.25
37.6	1413.76	32.7	1069.29	44.2	1953.64	38.1	1451.61	41.2	1697.44	38.6	1489.96
41.5	1722.25	28.2	795.24	36.4	1324.96	36.8	1354.24	39.4	1552.36	38.8	1505.44
36.8	1354.24	37.2	1383.84	38.4	1474.56	36.8	1354.24	39.4	1552.36	39.0	1521.00
34.6	1197.16	28.3	800.89	34.1	1162.81	34.6	1197.16	43.0	1849.00	31.0	961.00
29.8	888.04	19.0	361.00	37.4	1398.76	34.6	1197.16	41.9	1755.61	34.0	1156.00
42.8	1831.84	28.1	789.61	31.9	1017.61	35.5	1260.25	36.6	1339.56	29.0	841.00
44.7	1998.09	30.4	924.16	39.2	1536.64	40.5	1640.25	36.5	1332.25	39.0	1521.00
35.6	1267.36	35.0	1225.00	39.2	1536.64	41.3	1705.69	36.8	1354.24	39.0	1521.00
36.8	1354.24	37.2	1383.84	39.2	1536.64	37.1	1376.41	36.0	1296.00	42.8	1831.84
35.7	1274.49	27.3	745.29	35.2	1239.04	41.0	1681.00	36.6	1339.56	43.0	1849.00
43.5	1892.25	32.1	1030.41	38.2	1459.24	38.1	1451.61	24.8	615.04	42.4	1797.76

Uma NOTATA Tempa
(BY AGE)
ADULT

x	x ²	x	x ²	x	x ²	x	x ²	x	x ²	x	x ²
40.0	1600.00	40.0	1600	37.0	1369.00						
40.2	1616.04	41.0	1681.00	30.6	936.36						
39.4	1552.36	38.4	1474.56	33.0	1089.00						
37.4	1398.76	39.4	1552.36	32.8	1075.84						
41.6	1730.56	43.4	1883.56	40.0	1600.00						
30.0	900.00	41.4	1713.96	36.6	1339.56						
39.0	1521.00	41.2	1697.44	39.0	1521.00						
39.0	1521.00	43.2	1866.24	38.8	1505.44						
40.0	1600.00	43.6	1900.96	31.8	1011.24						
44.4	1971.36	38.0	1444.00	38.8	1505.44						
42.8	1831.84	38.6	1489.96								
42.0	1764.00	40.6	1648.36								
40.2	1616.04	43.4	1883.56								
39.6	1568.16	41.0	1681.00	39.6	1568.16						
45.6	2079.36	39.8	1584.04	39.0	1521.00						
42.4	1797.76	42.0	1764.00	38.4	1474.56						
40.6	1648.36	40.8	1664.64	38.0	1444.00						
36.0	1296.00	40.8	1664.64	38.0	1444.00						
44.8	2007.04	37.4	1398.76	38.4	1474.56						
43.0	1849.00	40.4	1632.16	38.4	1474.56						
41.2	1697.44	41.0	1681.00	40.3	1624.09						
41.0	1681.00	40.0	1600.00	39.7	1576.09						
41.2	1697.44	42.6	1814.76	40.3	1624.09						
42.0	1764.00	36.2	1310.44	43.4	1883.56						
30.0	900.00	38.6	1489.96	38.0	1444.00						
42.8	1831.84	25.2	635.04	41.6	1730.56						
39.2	1536.64	27.2	739.84	43.4	1883.56						
36.0	1296.00	39.6	1568.16	40.2	1616.04						
42.8	1831.84	37.0	1369.00	40.8	1664.64						
43.4	1883.56	37.2	1383.84	42.3	1789.29						
42.8	1831.84	36.8	1354.24	40.4	1632.16						

$$\Sigma x = 9597.1$$

$$N = 250$$

$$\bar{x} = 38.3$$

$$N = 252$$

$$\Sigma x = 9667.7$$

$$\Sigma x^2 = 373,804.07$$

$$N = 70$$

$$\Sigma x = 2680$$

$$\Sigma x^2 = 103,400$$

$$\bar{x} = 38.2857$$

$$s^2 = 11.3$$

$$s = 3.36$$

$$s = 3.36$$

$$s = 3.36$$

Uma nitida Temp.

(B, A, C)

Immature

$\bar{x} = 31.71$ mm

$\bar{y} = 51.61$

X	X	X	X	X	X	X	X	X	X	X	X
32.6	1413.76	39.4	1552.36	39.6	1568.16	39.2	1536.64	36.8	1354.24	41.6	1730.56
24.6	605.16	38.8	1505.44	33.0	1089.00	31.8	1011.24	37.0	1369.00	37.4	1398.76
26.9	723.61	41.8	1747.24	35.8	1281.64	34.5	1190.25	38.0	1444.00	37.0	1369.00
29.4	864.36	41.1	1689.21	34.0	1156.00	31.4	985.96	32.6	1062.76	41.4	1713.96
36.8	1354.24	39.0	1521.00	37.8	1428.84	35.0	1225.00	41.8	1747.24	36.8	1354.24
32.2	1036.84	39.2	1536.64	37.5	1406.25	36.9	1360.61	31.8	1011.24	38.4	1474.56
30.1	906.01	38.5	1482.25	37.7	1421.29	36.5	1332.25	38.0	1444.00	38.0	1444.00
36.5	1332.25	38.2	1459.24	39.5	1560.25	34.2	1169.64	37.8	1428.84	38.0	1444.00
40.0	1600.00	37.0	1369.00	38.6	1489.96	39.1	1528.81	42.6	1814.76	41.0	1681.00
30.5	930.25	36.7	1346.89	39.2	1536.64	32.3	1043.29	35.0	1225.00	43.0	1849.00
40.2	1616.04	33.0	1089.00	39.6	1568.16	31.1	967.21	41.0	1681.00	20.6	424.36
37.4	1398.76	34.2	1169.64	39.7	1576.09	34.2	1169.64	41.0	1681.00	40.2	1616.04
44.2	1953.64	34.4	1183.36	39.9	1592.01	23.6	556.96	39.0	1521.00	39.0	1521.00
42.8	1831.84	43.0	1849.00	41.0	1681.00	32.7	1069.29	39.8	1584.04	42.0	1764.00
37.3	1391.29	38.6	1489.96	35.6	1267.36	29.9	894.01	38.0	1444.00	39.6	1568.16
35.4	1253.16	38.2	1459.24	34.3	1176.49	30.2	912.04	36.0	1296.00	39.6	1568.16
34.8	1211.04	40.6	1648.36	38.4	1474.56	22.6	510.76	42.4	1797.76	39.4	1552.36
28.8	829.44	36.8	1354.24	42.2	1780.84	23.7	561.69	37.2	1383.84	36.4	1324.96
43.2	1866.24	45.3	2052.09	40.4	1632.16	28.2	795.24	43.6	1900.96	40.0	1600.00
44.0	1936.00	42.8	1831.84	37.0	1369.00	30.0	900.00	41.5	1722.25	39.2	1536.64
37.0	1369.00	39.0	1521.00	41.3	1705.69	40.1	1608.01	40.0	1600.00	39.0	1521.00
40.6	1648.36	37.2	1383.84	41.0	1681.00	39.4	1552.36	41.2	1697.44	37.0	1369.00
43.0	1849.00	36.4	1324.96	39.3	1544.49	38.0	1444.00	39.8	1584.04	38.0	1444.00
40.2	1616.04	36.2	1310.44	39.0	1521.00	35.2	1239.04	38.0	1444.00	33.6	1128.96
41.6	1730.56	40.9	1672.81	40.0	1600.00	39.7	1576.09	38.8	1505.44	35.0	1225.00
34.2	1169.64	44.8	2007.04	45.4	2061.16	42.2	1780.84	39.4	1552.36	37.6	1413.76
44.6	1989.16	43.0	1849.00	41.6	1730.56	40.4	1632.16	35.0	1225.00	37.6	1413.76
42.4	1797.76	43.4	1883.56	42.6	1814.76	37.2	1383.84	43.4	1883.56	34.4	1183.36
43.8	1918.44	41.6	1730.56	39.0	1521.00	36.5	1332.25	42.6	1814.76	32.4	1049.76
43.6	1900.96	38.4	1474.56	40.9	1672.81	39.8	1584.04	41.2	1697.44	26.8	718.24

Uma notata Temps.
(By Age)
Immature

S-V
♂ = 51 to 79 mm
♀ = 51 to 69 mm

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
33.6	1128.96							40.0	1600.00		
39.0	1521.00							40.8	1664.64		
37.2	1383.84							37.0	1369.00		
40.3	1624.09							36.6	1338.36		
38.8	1505.44							<u>35.4</u>	<u>1253.16</u>		
<u>37.0</u>	<u>1369.00</u>										

$$\Sigma X = 7013.9$$

$$N = 186$$

$$\bar{X} = 37.7$$

$$N = 191$$

$$\Sigma X = 7200.7$$

$$\Sigma X^2 = 275,896.21$$

$$N = 191$$

$$\Sigma X = 7200.7$$

$$\Sigma X^2 = 275,896.21$$

$$\bar{X} = 37.7$$

$$s^2 = 1.71$$

$$s = 1.31$$

$$s = 1.31$$

$$s = 1.31$$

Uma nitida Lump.

(B, A-)

Juvenile

2-3 mm

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
31.7	1004.89										
34.2	1169.64										
27.5	756.25										
31.6	998.56										
31.8	1011.24										
31.8	1011.24										
25.2	635.04										
23.1	533.61										
39.2	1536.64										
24.2	585.64										
38.2	1536.64										
36.5	1332.25										
41.0	1681.00										
41.2	1697.44										
40.6	1648.36										
39.0	1521.00										
41.6	1730.56										
39.4	1552.36										
39.0	1521.00										
34.4	1183.36										
34.0	1156.00										
37.8	1428.84										
42.0	1764.00										
37.4	1398.76										
38.0	1444.00										
33.1	1095.61										
<u>31.6</u>	<u>1011.76</u>										

$$\Sigma X = 914.5$$

$$N = 26$$

$$\bar{X} = 35.1$$

$$\Sigma X^2 = 32,133.93$$

$$\bar{X} = 35.1$$

$$s^2 = 17.94$$

$$s = 4.24$$

$$s = 4.24$$

Immature + juvenile

$$\Sigma X = 7928.7$$

$$N = 21$$

$$\bar{X} = 37.7$$

$$\Sigma X^2 = 30,110.12$$

$$\bar{X} = 37.7$$

$$s^2 = 14.1$$

$$s = 3.76$$

$$\bar{X} = 37.7$$

$$s^2 = 14.1$$

$$s^2 = 14.1$$

$$s = 3.76$$

Time Uma notata Are Active, E. Mtn

(N = ~~64~~)

Time	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec
0500												
0530						I	II					
0600						I	III	III				
0630				I	III		II	I				
0700					III	I	III	III	III	II		
0730				I	III	II	III	III	III	III		
0800				II	III	II	III	III	III	III		
0830			II	II	III	III	I	III	III	III		
0900			III	III	III	II	III	III	III	III		
0930			III	III	III	II	III	III	III	III		
1000			III	III	III	II	III	III	III	III		
1030		III	III	III	III	III	III	III	III	III		
1100		III	III	III	III	III	I	III	III	III		
1130		III	III	III	III	III		III	III	III		
1200		III	III	III	I	III		III	III	III		
1230			III	III		III		III	III	III		
1300			III	III				III	III	III		
1330		III	III	III				III	III	III		
1400		III	III	III				III	III	III		
1430		III	III	III				III	III	III		
1500		III	III	III				III	III	III		
1530			III	III				III	III	III		
1600			III	III				III	III	III		
1630			III	III				III	III	III		
1700			III	III				III	III	III		
1730			III	III				III	III	III		
1800			III	III				III	III	III		
1830			III	III				III	III	III		
1900								III	III	III		
1930												
2000												
2030												

Uma notata Temperatures

<u>Temp. (°C)</u>	<u>No. of Animals</u>	<u>"No Chase"</u>
19	Thru 4/65	4/65
20		
21	1	1
22		
23	2	1
24	3	2
25	5	2
26		
27	5	2
28	6	3
29	6	4
30	16	4
31	15	3
32	20	6
33	13	
34	41	7
35	34	4
36	55	8
37	65	11
38	59	6
39	73	15
40	69	11
41	61	6
42	39	7
43	39	5
44	11	5
45	7	5
46	1	5

$\bar{X} = 38.1^{\circ}\text{C}$

$S^2 = 16.1$

$N = 646$

$N = 115$
(No chase)

Uma
SCORPAA

Uma
SCOPARIA

Uma separia Temps, (1959-1962)
(0800 To 1700 - April thru August)

					Temp(°C)	No.	%
36.2	39.0	40.5	38.8	41.5	33	1	0
38.4	37.6	40.8	38.8	39.4	34	1	0
37.0	41.4	39.4	40.9	34.8	35	5	3
37.5	41.4	38.7	41.5	40.4	36	8	5
39.5	38.5	40.6	38.8	40.2	37	17	11
39.6	38.7	39.2	36.6	36.4	38	26	18
39.2	41.5	37.6	38.6	38.6	39	36	25
36.5	39.2	39.0	40.2	36.6	40	19	13
37.5	38.8	37.0	37.8	36.8	41	18	12
40.8	42.8	38.7	40.6	38.9	42	3	2
43.0	37.5	39.2	42.4	37.8	43	7	4
39.6	40.9	37.8	39.1	36.7	44	2	1
37.6	37.6	40.0	39.4	40.2			
38.0	39.8	39.2	27.6	39.4			
40.2	43.8	37.9	38.0	39.2			
35.8	35.6	41.9	38.6	40.5			
38.4	36.4	41.0	39.4	37.0			
37.0	43.4	38.1	35.0	37.9			
40.8	36.4	43.0	38.0	34.8			
38.8	38.4	39.9	43.6	39.2			
38.0	38.6	38.4	41.2	43.0			
32.8	38.3	41.2	42.0	36.2			
37.5	38.6	40.4	38.5	40.0			
38.5	39.7	41.6	39.9	28.3			
41.5	38.4	41.2	40.1	27.0			
39.0	36.6	39.2	42.6	37.4			
38.4	41.3	36.5	39.4	37.2			
38.4	34.6	37.4	39.8				
35.0	37.9	38.2	39.4				
39.0	39.4	37.1	40.8				

$N = 146 (143)$
 $\Sigma X = 5653.5$
 $\bar{X} = 38.7$

Uma SCORARIA TEMPS
(BY MONTH)

FEBRUARY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
<u>25.8</u>	665.64										
29.2	852.64										
30.2	912.04										
<u>31.6</u>	998.56										
32.5	1056.25										
34.6	1197.16										
34.0	1156.00										
33.0	1089.00										
28.0	784.00										
31.8	1011.24										
28.6	817.96										
<u>35.0</u>	<u>1225.00</u>										

$$\Sigma x = 374.3$$

$$N = 12$$

$$\Sigma x^2 = 11,765.44$$

$$\bar{x} = \frac{\Sigma x}{N}$$

$$\bar{x} = \frac{374.3}{12}$$

$$\bar{x} = 31.19$$

$$s^2 = \frac{\Sigma x^2 - \frac{(\Sigma x)^2}{N}}{N-1}$$

$$s^2 = 8.34$$

$$s = \sqrt{8.34}$$

$$s = 2.89$$

MARCH

[illegible]

Uma SCOPARIA TEMPS (BY MONTH)

APRIL

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
40.6	1648.36	39.5	1560.25								
36.6	1339.56	39.6	1568.16								
37.5	1406.25	<u>39.2</u>	1536.64								
37.0	1369.00	$\Sigma x = 1274.4$									
28.3	800.89	$N = 34$									
<u>27.0</u>	729.00										
38.6	1489.96	38.6	1489.96								
<u>38.3</u>	1466.89	39.8	1584.04								
<u>38.6</u>	1489.96	<u>39.6</u>	1568.16								
39.7	1576.09	37.2	1383.84								
38.4	1474.56	38.2	1459.24								
36.6	1339.56	39.4	1552.36								
41.3	1705.69	38.0	1444.00								
34.6	1197.16	38.0	1444.00								
37.9	1436.41	35.2	1239.04								
39.4	1552.36	38.0	1444.00								
40.5	1640.25	<u>35.2</u>	1239.04								
<u>40.8</u>	1664.64	$\Sigma x = 1691.6$									
<u>39.4</u>	1552.36	$N = 45$									
38.7	1497.69										
<u>40.6</u>	1648.36										
27.6	761.76	37.8	1428.84								
38.0	1444.00	36.4	1324.96								
<u>38.6</u>	1489.96	<u>37.4</u>	1398.76								
<u>39.4</u>	1552.36	$N = 48$									
35.0	1225.00	$\Sigma x = 1803.2$									
38.0	1444.00	$\Sigma x^2 = 68,167.62$									
<u>36.2</u>	1310.44	$\bar{x} = 37.56$									
<u>38.4</u>	1474.56	$\bar{x}^2 = 1410.75$									
37.0	1369.00	$s^2 = 9.61$									
37.5	1406.25	$s.e. = \frac{9.61}{48} = .200 = .447$									

MAY

[illegible]

Uma scoparia TEMPS (BY MONTH)

JUNE

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
38.2	1459.24	38.8	1505.44	40.2	1616.04						
39.0	1521.00	38.0	1444.00	38.6	1489.96						
39.8	1584.04	32.8	1075.84	40.0	1600.00						
39.2	1536.64	37.5	1406.25	40.1	1608.01						
39.9	1592.01	38.5	1482.25	40.3	1624.09						
41.9	1755.61	41.5	1722.25	38.0	1444.00						
41.0	1681.00	39.0	1521.00	35.6	1267.36						
34.0	1156.00	$\Sigma x = 1483.5$		38.4	1474.56						
38.1	1451.61	$N = 38$		37.4	1398.76						
43.0	1849.00			34.6	1197.16						
39.9	1592.01	38.4	1474.56	34.4	1183.36						
38.4	1474.56	35.2	1239.04	36.0	1296.00						
41.2	1697.44	37.8	1428.84	37.0	1369.00						
40.4	1632.16	37.4	1398.76	38.0	1444.00						
41.6	1730.56	37.3	1391.29	37.1	1376.41						
41.2	1697.44	37.6	1413.76	38.2	1459.24						
39.2	1536.64	36.7	1346.89	$\Sigma x = 2892.9$							
36.8	1354.24	38.2	1459.24	$N = 75$							
39.4	1552.36	38.0	1444.00	$\Sigma x^2 = 111,908.24$							
36.5	1332.25	37.0	1369.00	$\bar{x} = 38.57$							
37.5	1406.25	35.0	1225.00	$s^2 = 1427.0$							
40.8	1664.64	42.0	1764.00	$s = 37.78$							
43.0	1849.00	37.6	1413.76	$\sigma = 37.78$							
39.6	1568.16	41.0	1681.00	$\sigma = 37.78$							
37.6	1413.76	40.4	1632.16								
38.0	1444.00	39.7	1576.09								
40.2	1616.04	39.4	1552.36								
35.8	1281.64	38.4	1474.56								
38.4	1474.56	40.5	1640.25								
37.0	1369.00	38.0	1444.00								
40.8	1664.64	38.6	1489.96								

Uma SCOPARIA TEMPS
(BY MONTH)
JULY

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
38.6	1489.96	39.4	1552.36	38.5	1482.25						
37.6	1413.76	39.8	1584.04	38.7	1497.69						
39.6	1568.16	39.4	1552.36	41.5	1722.25						
36.4	1324.96	40.8	1664.64	39.2	1536.64						
39.6	1568.16	41.5	1722.25	38.8	1505.44						
38.0	1444.00	40.6	1648.36	42.8	1831.84						
37.6	1413.76	38.8	1505.44	37.5	1406.25						
37.4	1398.76	38.2	1459.24	40.9	1672.81						
37.0	1369.00	37.1	1376.41	37.6	1413.76						
37.4	1398.76	37.3	1391.29	39.8	1584.04						
38.5	1482.25	36.6	1339.56	43.8	1918.44						
36.6	1339.56	37.0	1369.00	$\Sigma x = 2709.8$							
32.7	1069.29	39.2	1536.64	$N = 70$							
34.8	1211.04	39.0	1521.00	$\Sigma x^2 = 105,202.52$							
35.6	1267.36	39.3	1544.49	$\bar{x} = 38.71$							
35.2	1239.04	37.6	1413.76	$s^2 = 1.16$							
35.0	1225.00	38.8	1505.44	$s = 1.08$							
36.4	1324.96	38.8	1505.44	$s.e. = 0.34$							
37.6	1413.76	35.4	1253.16	$= 0.253$							
40.0	1600.00	38.5	1482.25								
40.0	1600.00	40.0	1600.00								
41.2	1697.44	38.4	1474.56								
41.1	1689.21	38.4	1474.56								
39.3	1544.49	35.0	1225.00								
41.2	1697.44	38.0	1444.00								
42.0	1764.00	39.0	1521.00								
38.5	1482.25	39.0	1521.00								
39.9	1592.01	37.6	1413.76								
40.1	1608.01	41.8	1747.24								
42.6	1814.76	41.4	1713.96								

Uma SCOPARIA TEMPS
(BY MONTH)
AUGUST

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
37.8	428.84	39.2	1536.64	$\Sigma X = 2319.5$							
34.2	1169.64	43.0	1849.00	$N = 61$							
34.4	1183.36	36.2	1310.44	$\Sigma X^2 = 88,510.41$							
36.8	1354.24	40.0	1600.00	$\bar{X} = 38.02469$							
38.2	1459.24	37.4	1398.76	$S^2 = 1.75$							
40.2	1616.04	37.2	1383.84	$S = 1.32$							
36.8	1354.24	40.9	1672.81	$SE = 0.25$							
37.2	1383.84	41.5	1722.25	$CI = 37.52 - 38.53$							
34.6	1197.16	34.4	1183.36								
40.8	1664.64	36.2	1310.44	38.6	1489.96						
39.4	1552.36	37.6	1413.76	39.2	1536.64						
34.8	1211.04	38.8	1505.44	40.4	1632.16						
36.2	1310.44	36.6	1339.56	40.0	1600.00						
37.6	1413.76	38.6	1489.96	43.2	1866.24						
35.5	1260.25	40.2	1616.04	42.8	1831.84						
40.4	1632.16	37.8	1428.84	39.6	1568.16						
40.2	1616.04	40.6	1648.36	40.8	1664.64						
36.4	1324.96	42.9	1840.41								
38.6	1489.96	39.1	1528.81	$\Sigma X = 2319.5$							
36.6	1339.56	39.4	1552.36	$\Sigma X^2 = 88,510.41$							
36.8	1354.24	34.6	1197.16	$\bar{X} = 38.02469$							
38.9	1513.21	38.2	1459.24	$S^2 = 1.75$							
37.8	1428.84	41.2	1697.44	$S = 1.32$							
36.7	1346.89	34.2	1169.64	$SE = 0.25$							
40.2	1616.04	37.6	1413.76	$CI = 37.52 - 38.53$							
39.4	1552.36	35.6	1267.36								
39.2	1536.64	36.4	1324.96								
40.5	1640.25	43.4	1883.56								
37.0	1369.00	36.4	1324.96								
37.9	1436.41	38.4	1474.56								
34.8	1211.04										

Vina SCOPARIA TEMPS (BY MONTH)

SEPTEMBER

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
38.6	1489.96	40.4	1632.16								
37.2	1383.84	40.4	1632.16								
37.5	1406.25	38.0	1444.00								
37.5	1406.25	39.8	1584.04								
36.0	1296.00	42.0	1764.00								
36.3	1317.69	39.2	1536.64								
34.6	1197.16	37.0	1369.00								
35.1	1232.01	41.4	1713.96								
30.8	948.64	41.2	1697.44								
31.7	1004.89	39.0	1521.00								
31.0	961.00	37.0	1369.00								
31.6	998.56	38.6	1489.96								
32.3	1043.29	38.0	1444.00								
32.6	1062.76	40.0	1600.00								
32.4	1049.76	38.4	1474.56								
27.7	767.29	39.4	1552.36								
31.8	1011.24	37.0	1369.00								
31.8	1011.24	38.0	1444.00								
38.8	1505.44	36.5	1332.25								
<u>Σx = 645.3</u>		<u>39.2</u>	1536.64								
N = 19		42.0	1764.00								
<u>Σx² = 22,043.25</u>		<u>36.6</u>	1339.56								

$$\bar{x} = 33.96$$

$$n = 41$$

$$\bar{y} = 32.28$$

$$\Sigma x = 1501$$

$$s^2 = 10.1$$

$$\Sigma y = 5557.0$$

$$s = 3.18$$

$$\bar{x} = 33.96$$

$$= 0.725$$

$$\Sigma xy = 13000.0$$

$$s^2 = 10.1$$

$$s = 3.18$$

$$= 0.725$$

OCTOBER

[illegible]

Uma SCOPARIA TEMPS
(BY MONTH)
NOVEMBER

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
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32.6	1062.76										
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26.4	696.96										
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$\Sigma X = 59.0$

$N = 2$

$\Sigma X^2 = 1759.72$

$\bar{X} = 29.50$

$(\bar{X})^2 = 870.25$

Total

1959-1963

$\Sigma X = 15451.4$

$N = 411$

$\bar{X} = 37.5$

Uma scoparia TEMPS (BY SEX)



<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
32.5	1056.25	41.5	1722.25	34.3	1176.49	39.4	1552.36	39.5	1560.25	36.4	1324.96		
34.2	1169.64	36.2	1310.44	37.9	1436.41	40.8	1664.64	39.6	1568.16	38.4	1474.56		
34.4	1183.36	37.6	1413.76	39.8	1584.04	38.7	1497.69	37.5	1406.25	36.2	1310.44		
36.8	1354.24	35.5	1260.25	42.4	1797.76	40.6	1648.36	38.0	1444.00	29.2	852.64		
38.2	1459.24	40.4	1632.16	37.9	1436.41	32.6	1062.76	40.2	1616.04	31.6	936.36		
40.2	1616.04	40.2	1616.04	33.6	1128.96	34.2	1169.64	35.8	1281.64	34.6	1197.16		
36.8	1354.24	36.4	1324.96	38.8	1505.44	39.0	1521.00	38.4	1474.56	33.0	1089.00		
37.2	1383.84	38.6	1489.96	41.3	1705.69	38.7	1497.69	37.0	1369.00	28.0	784.00		
34.6	1197.16	38.9	1513.21	37.8	1428.84	40.0	1600.00	40.8	1664.64	28.6	817.96		
40.6	1648.36	37.0	1369.00	39.0	1521.00	39.2	1536.64	38.8	1505.44	35.0	1225.00		
40.8	1664.64	37.9	1436.41	36.2	1310.44	39.9	1592.01	38.0	1444.00	37.4	1398.76		
36.6	1339.56	34.8	1211.04	40.6	1648.36	41.9	1755.61	32.8	1075.84	33.0	1089.00		
37.0	1369.00	39.2	1536.64	39.7	1576.09	34.0	1156.00	38.5	1482.25	36.4	1324.96		
38.2	1459.24	43.0	1849.00	26.4	696.96	38.1	1451.61	37.5	1406.25	37.2	1383.84		
39.0	1521.00	36.2	1310.44	36.7	1346.89	38.4	1474.56	41.5	1722.25	36.0	1296.00		
39.8	1584.04	40.0	1600.00	36.0	1296.00	40.4	1632.16	39.0	1521.00	37.6	1413.76		
37.6	1413.76	36.0	1296.00	39.9	1592.01	41.6	1730.56	40.0	1600.00	35.0	1225.00		
39.6	1568.16	35.1	1232.01	32.8	1075.84	40.6	1648.36	38.4	1474.56	37.4	1398.76		
37.4	1398.76	32.3	1043.29	37.4	1398.76	37.1	1376.41	39.0	1521.00	37.0	1369.00		
37.0	1369.00	32.6	1062.76	37.8	1428.84	37.6	1413.76	37.6	1413.76	38.4	1474.56		
37.4	1398.76	27.7	767.29	30.9	954.81	34.4	1183.36	41.8	1747.24	37.8	1428.84		
36.6	1339.56	31.8	1011.24	27.0	729.00	36.2	1310.44	38.5	1482.25	37.0	1369.00		
34.8	1211.04	31.8	1011.24	32.4	1051.76	38.6	1489.96	41.5	1722.25	38.0	1444.00		
35.6	1267.36	35.1	1232.01	37.2	1383.84	40.6	1648.36	39.2	1536.64	38.0	1444.00		
35.0	1225.00	38.7	1497.69	38.3	1466.89	42.9	1840.41	38.8	1505.44	38.0	1444.00		
40.0	1600.00	37.9	1436.41	39.7	1576.09	38.8	1505.44	37.5	1406.25	32.6	1062.76		
41.2	1697.44	36.8	1354.24	38.4	1474.56	38.6	1489.96	40.9	1672.81	38.0	1444.00		
42.0	1764.00	35.2	1239.04	36.6	1339.56	39.4	1552.36	43.8	1918.44	39.8	1584.04		
40.1	1608.01	33.5	1122.25	41.3	1705.69	35.0	1225.00	34.6	1197.16	39.6	1568.16		
39.4	1552.36	32.4	1049.76	34.6	1197.16	37.0	1369.00	37.6	1413.76	37.2	1383.84		
39.8	1584.04	35.6	1267.36	37.9	1436.41	37.5	1406.25	43.4	1883.56	38.0	1444.00		

UMA SCOPARIA Temps
(by sex)



x	x ²	x	x ²
39.0	1521.00	34.6	1197.16
38.0	1444.00	34.4	1183.36
39.8	1584.04	38.0	1444.00
38.9	1513.21	37.1	1376.41
40.6	1648.36		
39.0	1521.00		
44.2	1953.64		
42.4	1797.76		
37.6	1413.76		
42.2	1780.84	36.4	1324.96
36.6	1339.56	37.4	1398.76
40.0	1600.00		
40.0	1600.00		
33.4	1115.56		
35.8	1281.64		
41.2	1697.44		
38.4	1474.56		
37.8	1428.84		
37.3	1391.29		
37.0	1369.00		
38.2	1459.24		
35.0	1225.00		
42.0	1764.00		
40.4	1632.16		
39.7	1576.09		
40.5	1640.25		
40.2	1616.04		
40.1	1608.01		
38.0	1444.00		
38.6	1489.96		
38.1	1451.61		

$$\Sigma X = 8268.0$$

$$N = 220$$

$$\bar{X} = 37.5$$

$$N = 222$$

$$\Sigma X = 8341.8$$

$$\Sigma X^2 = 315,278.45$$

$$\bar{X} = 37.57$$

$$s^2 = 9.17$$

$$s = 3.03$$

$$s = 3.03$$

$$s = 3.03$$

$$43.2 \quad 1866.24$$

$$42.8 \quad 1831.84$$

$$40.4 \quad 1632.16$$

$$40.4 \quad 1632.16$$

$$38.0 \quad 1444.00$$

$$39.8 \quad 1584.04$$

$$41.2 \quad 1697.44$$

$$38.0 \quad 1444.00$$

$$40.0 \quad 1600.00$$

$$39.4 \quad 1552.36$$

$$39.2 \quad 1536.64$$

$$36.6 \quad 1339.56$$

Uma scoparia TEMPS

(BY SEX)



X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
37.8	1428.84	37.5	1406.25	38.9	1512.01	38.4	1474.56	34.6	1197.16	36.0	1296.00
37.5	1406.25	37.5	1406.25	41.2	1697.44	39.2	1536.64	37.4	1398.76	38.4	1474.56
38.6	1489.96	36.3	1317.69	41.2	1697.44	36.5	1332.25	31.6	998.56	41.2	1697.44
39.6	1568.16	34.6	1197.16	39.2	1536.64	40.8	1664.64	36.0	1296.00	38.8	1505.44
36.4	1324.96	30.8	948.64	36.8	1354.24	43.0	1849.00	37.0	1369.00	34.8	1211.04
38.0	1444.00	31.7	1004.89	39.4	1552.36	39.6	1568.16	36.8	1354.24	33.4	1115.56
37.6	1413.76	31.0	961.00	38.8	1505.44	37.6	1413.76	38.6	1489.96	32.6	1062.76
32.7	1069.29	31.6	998.56	38.2	1459.24	35.4	1253.16	37.0	1369.00	35.0	1225.00
35.2	1239.04	32.4	1049.76	37.3	1391.29	38.5	1482.25	39.2	1536.64	36.8	1354.24
36.4	1324.96	36.4	1324.96	36.6	1339.56	38.4	1474.56	32.0	1024.00	35.1	1232.01
37.6	1413.76	39.3	1544.49	37.0	1369.00	35.0	1225.00	37.4	1398.76	36.2	1310.44
41.0	1681.00	36.0	1296.00	39.2	1536.64	38.0	1444.00	36.6	1339.56	39.4	1552.36
41.1	1689.21	39.8	1584.04	39.0	1521.00	39.0	1521.00	38.4	1474.56	36.9	1361.61
39.3	1544.49	38.0	1444.00	39.3	1544.49	41.4	1713.96	37.6	1413.76	35.2	1239.04
41.2	1697.44	36.5	1332.25	38.8	1505.44	38.7	1497.69	37.8	1428.84	37.4	1398.76
38.5	1482.25	32.6	1062.76	38.8	1505.44	42.8	1831.84	37.8	1428.84	36.7	1346.89
39.9	1592.01	38.0	1444.00	40.9	1672.81	37.6	1413.76	38.6	1489.96	38.0	1444.00
42.6	1814.76	37.4	1398.76	41.5	1722.25	39.8	1584.04	38.2	1459.24	37.0	1369.00
40.8	1664.64	35.0	1225.00	37.6	1413.76	38.2	1459.24	39.4	1552.36	37.6	1413.76
39.4	1552.36	36.1	1303.21	38.8	1505.44	41.2	1697.44	38.0	1444.00	41.0	1681.00
34.8	1211.04	28.3	800.89	36.6	1339.56	34.2	1169.64	38.0	1444.00	39.4	1552.36
36.6	1339.56	38.6	1489.96	40.2	1616.04	35.6	1267.36	35.2	1239.04	38.4	1474.56
36.8	1354.24	38.6	1489.96	37.8	1428.84	36.4	1324.96	35.2	1239.04	38.0	1444.00
37.8	1428.84	40.5	1640.25	39.1	1528.81	33.5	1122.25	39.6	1568.16	38.6	1489.96
36.7	1346.89	39.4	1552.36	39.4	1552.36	36.9	1361.61	41.0	1681.00	38.6	1489.96
40.2	1616.04	37.6	1413.76	27.6	761.76	25.8	665.64	38.0	1444.00	40.0	1600.00
39.4	1552.36	37.0	1369.00	38.0	1444.00	30.2	912.04	38.8	1505.44	40.3	1624.09
39.2	1536.64	39.2	1536.64	38.0	1444.00	32.5	1056.25	41.0	1681.00	37.4	1398.76
40.5	1640.25	37.8	1428.84	37.6	1413.76	34.0	1156.00	36.0	1296.00	36.0	1296.00
38.6	1489.96	41.0	1681.00	38.0	1444.00	31.8	1011.24	43.0	1849.00	39.0	1521.00
37.2	1383.84	43.0	1849.00	36.2	1310.44	38.0	1444.00	43.2	1866.24	38.0	1444.00

LINA SCOTARIA TEMPS (BY SEX)

x x^2
 38.2 1459.24

x x^2
37.8 1428.84

$\Sigma x = 7021.9$

$N = 187$

$\bar{x} = 37.5$

$N = 188$

$\Sigma x = 7057.7$

$\Sigma x^2 = 266,679.37$

$\bar{x} = 37.546$

$\bar{x}^2 = 1409.64$

$\Sigma x^2 - N \bar{x}^2 = 10,555.36$

$SE = \sqrt{\frac{10,555.36}{188}}$

$SE = 7.42$

x x^2 x x^2 x x^2

38.4 1474.56

37.0 1369.00

38.0 1444.00

36.5 1332.25

42.0 1764.00

$\Sigma x = 711.9$

$N = 5$

$\bar{x} = 37.7$

$\bar{x}^2 = 1421.29$

$\Sigma x^2 - N \bar{x}^2 = 10,555.36$

$SE = \sqrt{\frac{10,555.36}{5}}$

$SE = 46.1$

38.6 1489.96

39.2 1536.64

40.4 1632.16

40.0 1600.00

39.6 1568.16

40.8 1664.64

42.0 1764.00

39.2 1536.64

37.0 1369.00

41.4 1713.96

39.0 1521.00

37.0 1369.00

38.6 1489.96

Uma SCOPARIA TEMPS
(BY AGE)
ADULT

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
40.2	1616.04	39.4	1552.36	37.9	1436.41	32.6	1413.76	39.0	1521.00	37.5	1406.25		
37.2	1383.84	39.2	1536.64	33.6	1128.96	39.0	1521.00	39.3	1544.49	39.5	1560.25		
34.6	1197.16	37.0	1369.00	38.8	1505.44	37.0	1369.00	37.6	1413.76	39.6	1568.16		
40.8	1664.64	37.9	1436.41	37.8	1428.84	38.7	1497.69	38.8	1505.44	39.2	1536.64		
39.6	1568.16	34.8	1211.04	39.0	1521.00	39.2	1536.64	38.8	1505.44	36.5	1332.25		
36.4	1324.96	39.2	1536.64	26.4	696.96	37.8	1428.84	40.9	1672.81	37.5	1406.25		
38.0	1444.00	43.0	1849.00	36.0	1296.00	40.0	1600.00	41.5 1722.25	40.8	1664.64			
37.6	1413.76	36.2	1310.44	39.9	1592.01	39.2	1536.64	34.4	1183.36	43.0	1849.00		
37.4	1398.76	40.0	1600.00	37.8	1428.84	39.9	1592.01	36.2	1310.44	39.6	1568.16		
37.4	1398.76	37.5	1406.25	35.0	1225.00	41.9	1755.61	37.6	1413.76	37.6	1413.76		
36.6	1339.56	37.5	1406.25	36.1	1303.21	41.0	1681.00	38.8	1505.44	38.0	1444.00		
32.7	1069.29	36.0	1296.00	28.3	800.89	34.0	1156.00	36.6	1339.56	40.2	1616.04		
34.8	1211.04	36.3	1317.69	27.0	729.00	38.1	1451.61	38.6	1489.96	35.8	1281.64		
35.0	1225.00	35.1	1232.01	37.2	1383.84	43.0	1849.00	40.2	1616.04	38.4	1474.56		
40.0	1600.00	30.8	948.64	38.6	1489.96	39.9	1592.01	37.8	1428.84	37.0	1369.00		
40.0	1600.00	31.7	1004.89	38.3	1466.89	38.4	1474.56	40.6	1648.36	40.8	1664.64		
39.3	1544.49	31.0	961.00	38.6	1489.96	41.2	1697.44	42.9	1840.41	38.8	1505.44		
41.2	1697.44	31.6	998.56	39.7	1576.09	40.4	1632.16	39.1	1528.81	38.0	1444.00		
38.5	1482.25	32.3	1043.29	38.4	1474.56	41.6	1730.56	39.4	1552.36	32.8	1075.84		
39.9	1592.01	32.6	1062.76	36.6	1339.56	41.2	1697.44	38.8	1505.44	38.5	1482.25		
42.6	1814.76	32.4	1049.76	41.3	1705.69	39.2	1536.64	27.6	761.76	41.5	1722.25		
39.8	1584.04	27.7	767.29	34.6	1197.16	36.8	1354.24	38.0	1444.00	39.0	1521.00		
40.8	1664.64	31.8	1011.24	37.9	1436.41	39.4	1552.36	38.6	1489.96	35.4	1253.16		
41.5	1722.25	36.4	1324.96	39.4	1552.36	40.6	1648.36	39.4	1552.36	38.5	1482.25		
39.4	1552.36	39.3	1544.49	40.5	1640.25	38.8	1505.44	35.0	1225.00	40.0	1600.00		
36.6	1339.56	36.0	1296.00	40.8	1664.64	38.2	1459.24	38.0	1444.00	38.4	1474.56		
36.8	1354.24	35.2	1239.04	39.4	1552.36	37.1	1376.41	37.6	1413.76	38.4	1474.56		
38.9	1513.21	33.5	1122.25	38.7	1497.69	37.3	1391.29	38.0	1444.00	35.0	1225.00		
37.8	1428.84	32.4	1049.76	40.6	1648.36	36.6	1339.56	36.2	1310.44	38.0	1444.00		
36.7	1346.89	39.8	1584.04	32.6	1062.76	37.0	1369.00	38.4	1474.56	39.0	1521.00		
40.2	1616.04	38.0	1444.00	34.2	1169.64	39.2	1536.64	37.0	1369.00	39.0	1521.00		

Uma SCOPARIA TEMPS (BY AGE) ADULT

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
37.6	1413.76	35.0	1225.00	35.1	1232.01						
41.8	1747.24	37.8	1428.84	35.2	1239.04						
41.4	1713.96	38.6	1489.96	37.3	1391.29						
38.5	1482.25	37.0	1369.00	36.7	1346.89						
38.7	1497.69	38.0	1444.00	38.2	1459.24						
41.5	1722.25	39.2	1536.64	38.0	1444.00						
39.2	1536.64	38.0	1444.00	37.0	1369.00						
38.8	1505.44	32.0	1024.00	35.0	1225.00						
42.8	1831.84	37.4	1398.76	42.0	1764.00						
37.5	1406.25	38.4	1474.56	37.6	1413.76						
40.9	1672.81	37.6	1413.76	40.4	1632.16						
37.6	1413.76	38.2	1459.24	39.7	1576.09						
39.8	1584.04	38.0	1444.00	38.4	1474.56						
43.8	1918.44	39.6	1568.16	38.0	1444.00						
34.2	1169.64	39.0	1521.00	38.6	1489.96	37.8	1428.84				
37.6	1413.76	38.0	1444.00	38.6	1489.96	36.4	1324.96				
35.6	1267.36	39.8	1584.04	40.0	1600.00	40.4	1632.16				
36.4	1324.96	40.6	1648.36	40.1	1608.01	40.4	1632.16				
43.4	1883.56	39.0	1521.00	40.3	1624.09	38.0	1444.00				
36.4	1324.96	44.2	1953.64	38.0	1444.00	42.0	1764.00				
38.4	1474.56	43.0	1849.00	35.6	1267.36	37.0	1369.00				
25.8	665.64	36.0	1296.00	38.4	1474.56	41.4	1713.96				
30.2	912.04	41.2	1697.44	34.6	1197.16	39.0	1521.00				
32.5	1056.25	42.4	1797.76	34.4	1183.36	37.0	1369.00				
34.6	1197.16	33.4	1115.56	38.0	1444.00	38.6	1489.96				
34.0	1156.00	34.8	—	37.1	1376.41	37.0	1369.00				
33.0	1089.00	33.4	—	38.2	1459.24						
28.0	784.00	32.6	1062.76								
28.6	817.96	35.8	1281.64								
33.0	1089.00	37.6	1413.76								
37.6	1413.76	41.2	1697.44								

$$\Sigma X = 10280.5$$

$$N = 273$$

$$\bar{X} = 37.6$$

$$N = 275$$

$$\Sigma 1 = 1, 500$$

$$\Sigma X = 10280.5$$

$$\bar{X} = 37.6$$

$$SE = 1.07$$

$$SE = 1.07$$

$$SE = 1.07$$

$$SE = 1.07$$

$$SE = 1.07$$

$$SE = 1.07$$

$$SE = 1.07$$

Uma SCOPARIA TEMPS (BY AGE) IMMATURE

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
37.8	1428.84	36.4	1324.96	38.2	1459.24	39.8	1581.04	37.8	1428.84		
34.4	1183.36	38.6	1489.96	41.2	1697.44	39.6	1568.16	37.4	1398.76		
36.8	1354.24	40.5	1640.25	33.5	1122.25	37.2	1383.84	37.0	1369.00		
38.2	1459.24	38.6	1489.96	36.9	1361.61	39.4	1552.36	41.0	1681.00		
36.8	1354.24	37.2	1383.84	36.2	1310.44	38.0	1444.00	39.4	1552.36		
40.6	1648.36	34.6	1197.16	29.2	852.64	35.2	1239.04	40.5	1640.25		
36.6	1339.56	31.8	1011.24	31.6	998.56	38.0	1444.00	40.2	1616.04		
37.5	1406.25	35.1	1232.01	31.8	1011.24	35.2	1239.04	37.4	1398.76		
37.0	1369.00	38.7	1497.69	35.0	1225.00	38.9	1513.21	36.0	1296.00		
38.2	1459.24	37.9	1436.41	37.4	1398.76	41.0	1681.00	39.0	1521.00		
39.0	1521.00	36.8	1354.24	38.0	1444.00	38.0	1444.00	32.5	1056.25		
39.8	1584.04	35.6	1267.36	36.4	1324.96	38.8	1505.44	34.2	1169.64		
38.6	1489.96	34.3	1176.49	37.2	1383.84	41.0	1681.00				
37.6	1413.76	37.9	1436.41	34.6	1197.16	36.0	1296.00				
39.6	1568.16	36.5	1332.25	37.4	1398.76	42.2	1780.84				
37.0	1369.00	39.8	1584.04	31.6	998.56	43.2	1866.24				
35.6	1267.36	42.4	1797.76	36.0	1296.00	38.4	1474.56				
35.2	1239.04	41.3	1705.69	36.0	1296.00	37.6	1413.76				
36.4	1324.96	36.2	1310.44	37.0	1369.00	42.2	1780.84				
37.6	1413.76	40.6	1648.36	37.4	1398.76	38.8	1505.44				
41.2	1697.44	39.7	1576.09	37.0	1369.00	36.6	1339.56	37.4	1398.76		
41.1	1689.21	32.6	1062.76	38.4	1474.56	40.0	1600.00				
42.0	1764.00	36.7	1346.89	36.8	1354.24	40.0	1600.00				
40.1	1608.01	38.0	1444.00	37.0	1369.00	34.8	1211.04				
39.4	1552.36	37.8	1428.84	38.0	1444.00	33.4	1115.56				
34.8	1211.04	37.4	1398.76	32.6	1062.76	35.0	1225.00				
36.2	1310.44	37.4	1398.76	38.0	1444.00	36.8	1354.24				
37.6	1413.76	30.9	954.81	36.6	1339.56	36.2	1310.44				
35.5	1260.25	37.4	1398.76	37.8	1428.84	39.4	1552.36				
40.4	1632.16	37.5	1406.25	37.8	1428.84	36.9	1361.61				
40.2	1616.04	34.6	1197.16	38.6	1489.96	38.4	1474.56				

$$\begin{aligned}\Sigma X &= 5089.2 \\ N &= 136 \\ \bar{X} &= 37.4\end{aligned}$$

$$N = 137$$

$$\Sigma x^2 = 172,045$$

$$\bar{x} = 37.42$$

$$\bar{x} = 37.42$$

$$\bar{x} = 37.42$$

$$\bar{x} = 37.42$$

$$\bar{x} = 37.42$$

$$\bar{x} = 37.42$$

Uma scoparia Temps
(by age)
Juvenile

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
39.8	1584.04										
39.2	1536.64										
41.2	1697.44										
38.0	1444.00										
40.0	1600.00										
38.4	1474.56										
39.4	1552.36										
38.0	1444.00										
36.5	1332.25										
39.2	1536.64										
42.0	1764.00										
36.6	1339.56										

$$n = 12$$

$$\sum x = 460.2$$

$$\sum x^2 = 1521.00$$

$$\bar{x} = 39.0$$

$$\bar{x}^2 = 1521.00$$

$$s^2 = 4.86$$

$$S.E. = 2.205$$

$$s = 2.205$$

TIME Uma SCOPARIA ARE ACTIVE, BY MONTH

[illegible]

Uma spp

Uma spp.

Times Uma spp. Are Active (1958-1963)

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
notata	18	29	63	96	91	59	64	109	88	84	24	2
inornata	1	52	132	124	210	63	41	89	37	33	1	0
scoparia	1	22	68	81	79	72	75	87	28	40	2	0
Total	20	103	263	301	380	194	180	285	153	157	27	2

Total $N = 2065$

notata $N = 727$

inornata $N = 783$

scoparia $N = 555$

March-April Activity (1958-1963)

Species	Mar.	Apr.	Total
notata	63	96	159
inornata	132	124	256
scoparia	68	81	149
Total	263	301	564

Proportion of *Uma* spp. Captured at Different Local Temperatures
(Through March 1962)

<u>Temp(°C)</u>	<u><i>incarnata</i></u>		<u><i>notata</i></u>		<u><i>serpentina</i></u>	
	<u>No.</u>	<u>To</u>	<u>No.</u>	<u>To</u>	<u>No.</u>	<u>To</u>
24	0	0	3	1	0	0
25	0	0	7	1	0	0
26	1	0	0	0	1	0
27	0	0	3	1	1	0
28	0	0	7	1	4	1
29	1	0	1	1	1	0
30	0	0	9	2	1	0
31	2	0	3	1	1	0
32	3	1	11	2	12	4
33	7	2	9	2	10	1
34	9	2	18	7	7	2
35	18	6	17	1	4	1
36	29	10	35	8	25	8
37	45	15	37	9	50	15
38	55	19	36	7	41	17
39	42	15	48	11	51	18
40	29	11	77	11	20	10
41	22	8	50	12	26	11
42	15	5	30	7	5	1
43	10	7	21	6	6	1
44	3	1	11	2	1	0
45	0	0	7	2	0	0
46	0	0	0	0	0	0
<u>N</u>	<u>291</u>		<u>418</u>		<u>323</u>	

2N = 1032



I.R. - 13 8 1/2 x 11



UROSAURUS GRACIOSA

Tr. vegetation

<i>Eriogonum deserticola</i>	
<i>Ephedra nevadensis</i> sp.	
<i>Larrea divaricata</i>	
<i>Croton californicus</i>	
<i>Dalea emoryi</i>	
<i>Helianthus</i>	
<i>Dalea spinescens</i>	
<i>Petalonyx thurberi</i>	
<i>Dicoria canescens</i>	
<i>Atriplex canescens</i>	
<i>Hilaria rigida</i>	
<i>Chilopsis linearis</i>	
<i>Cercidium</i>	
<i>Chrysothamnus</i> sp.	
<i>Palotexia linearis</i>	
<i>Encelia</i>	

UROSAURUS GRACIOSA TEMPS
(BY MONTH)

FEBRUARY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
28.9	835.21												
25.7	660.49												
31.8	1011.24												
28.6	817.96												
28.9	835.21												
<u>32.1</u>	<u>1030.41</u>												
<u>34.3</u>	<u>1176.49</u>												

$N = 11$
 $\sum x = 321.3$
 $\sum x^2 = 3610.41$
 $\bar{x} = 29.21$
 $\bar{x}^2 = 853.22$
 $SE = 1.20$
 $= 1610$

UROSAURUS GRACIOSA TEMPS

(BY MONTH)

MARCH

x x² x x² x x² x x² x x² x x²

<u>35.1</u>	1232.01	<u>18.4</u>	338.56
<u>36.0</u>	1296.00	<u>18.0</u>	324.00
<u>32.5</u>	1056.25	<u>17.4</u>	302.76
<u>36.4</u>	1324.96	<u>18.2</u>	331.24
<u>32.4</u>	1049.76	<u>18.0</u>	324.00
<u>35.1</u>	1232.01	<u>20.2</u>	408.04
<u>37.6</u>	1413.76	<u>19.4</u>	376.36
<u>35.4</u>	1253.16	<u>19.2</u>	368.64
<u>34.6</u>	1197.16	<u>20.0</u>	400.00
<u>33.9</u>	1149.21	<u>18.6</u>	345.96
<u>40.0</u>	1600.00	<u>22.4</u>	501.76
<u>35.9</u>	1288.81	<u>18.2</u>	331.24
<u>34.2</u>	1169.64	<u>16.6</u>	275.56

all measured on
cold day (15.8° to
19°C-air temp.)

<u>34.6</u>	1197.16		
<u>37.8</u>	1428.84	N = 24	
<u>35.8</u>	1281.64	$\Sigma X = 1124.3$	
<u>35.6</u>	1267.36	$\Sigma X^2 = 57,777.47$	

$$\bar{X} = 25.82$$

$$\bar{X}^2 = 666.67$$

$$s^2 = 1.25$$

$$s.e. = 1.12$$

$$s.e. = 1.25$$

$$\bar{X} = 1144.17$$

$$s^2 = 1.25$$

$$s.e. = \sqrt{1.25}$$

$$s.e. = 1.12$$

$$\Sigma X = 879.7$$

$$\Sigma X^2 = 50,089.35$$

$$\bar{X} = 23.83$$

APRIL

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
28.6	817.96	39.2	1536.64	24.0	576.00				
35.0	1225.00	39.5	1560.25	30.2	912.04				
36.6	1339.56	36.0	1296.00	31.0	961.00				
35.4	1253.16	40.6	1648.36	34.0	1156.00				
36.8	1354.24	39.6	1568.16	38.0	1444.00				
36.2	1310.44	39.0	1521.00	33.0	1089.00				
35.6	1267.36	34.2	1169.64	34.0	1156.00				
36.2	1310.44	31.0	961.00	37.6	1413.76				
32.0	1024.00	30.4	924.16	37.2	1383.84				
31.7	1004.89	29.0	841.00	37.0	1369.00				
35.3	1246.09	28.8	829.44	35.2	1239.04				
36.1	1303.21	29.5	870.25	33.0	1089.00				
36.5	1332.25	29.0	841.00						
39.1	1528.81	28.4	806.56						
26.4	696.96	27.4	750.76						
35.8	1281.64	28.2	795.24						
34.8	1211.04	25.0	625.00						
29.8	888.04	25.4	645.16						
39.9	1592.01	28.2	795.24						
36.6	1339.56	30.6	936.36						
36.2	1310.44	32.0	1024.00						
35.8	1281.64	33.4	1115.56						
36.0	1296.00	26.0	676.00						
40.4	1632.16	22.4	501.76						
40.6	1648.36	32.0	1024.00						
35.0	1225.00	33.2	1102.24						
39.2	1536.64	33.2	1102.24						
38.2	1459.24	29.8	888.04						
41.4	1713.96	26.0	676.00						
40.4	1632.16	27.8	772.84						

UROSAURUS GRACIOSA TEMPS (BY MONTH)

MAY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
<u>33.9</u>	1149.21														
<u>38.6</u>	1489.96														
<u>38.4</u>	1474.56														
<u>33.8</u>	1142.44														
<u>34.6</u>	1197.16														
<u>28.6</u>	817.96														
<u>37.6</u>	1413.76														
<u>33.0</u>	1089.00														
<u>28.9</u>	835.21														
<u>30.5</u>	930.25														
<u>27.8</u>	772.84														
<u>29.2</u>	852.64														
<u>31.4</u>	985.96														
<u>29.5</u>	870.25														
<u>30.8</u>	948.64														
<u>28.6</u>	817.96														
<u>33.2</u>	1102.24														
<u>23.4</u>	547.56														
<u>27.8</u>	772.84														
<u>35.6</u>	1267.36														
<u>30.4</u>	924.16														

$$N = 21$$

$$\Sigma x = 665.6$$

$$\Sigma x^2 = 21041.96$$

$$\bar{x} = 31.69$$

$$(\bar{x})^2 = 1004.25$$

$$\Sigma x^2 = 15.6$$

$$s^2 = 1.748$$

$$s = 1.32$$

UROSAURUS GRACIOSA TEMPS (BY MONTH)

JUNE

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
39.0	1521.00	37.6	
39.9	1592.01	40.8	
38.9	1513.21	35.8	
40.7	1656.49	35.8	
40.8	1664.64	39.4	
37.6	1413.76	39.4	
35.5	1260.25	38.9	
34.6	1197.16	40.4	
39.2	1536.64	41.3	
30.0	900.00		
26.0	676.00		
27.4	750.76		
28.0	784.00		
26.8	718.24		
30.4	924.16		
25.0	625.00		
34.2	1169.64		
32.8	1075.84		
29.4	864.36		

$$N = 19$$

$$\sum x = 636.2$$

$$\sum x^2 = 21,843.16$$

$$\bar{x} = 33.48$$

$$\bar{x} =$$

$$\bar{x} =$$

$$s^2 =$$

$$s =$$

$$s =$$

LIROSAURUS GRACIOSA TEMPS
(BY MONTH)
AUGUST

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
33.4	1115.56										
38.8	1505.44										
35.5	1260.25										
36.6	1339.56										
23.0	529.00										
24.9	620.01										
33.4	1115.56										
28.6	817.96										
29.6	876.16										
40.4	1632.16										
42.6	1814.76										
41.8	1747.24										
37.4	1398.76										
34.0	1156.00										
36.4	1324.96										
39.2	1536.64										
42.2	1780.84										
41.2	1697.44										
39.8	1584.04										
41.4	1713.96										
40.8	1664.64										
39.0	1521.00										
39.4	1552.36										
39.0	1521.00										
38.6	1489.96										
37.5	1406.25										
36.0	1296.00										
42.6	1814.76										
41.4	1713.96										
37.2	1383.84										

$$N = 30$$

$$\sum X = 1111.7$$

$$\sum X^2 = 41190.51$$

$$\bar{X} = 37.05$$

$$\bar{X}^2 = 1372.70$$

$$\sum X^2 - N\bar{X}^2$$

$$= 41190.51 - 4618.10$$

$$= 36572.41$$

$$= 1219.08$$

$$= 11.19$$

$$= 0.927$$

SEPTEMBER

UROSAURUS GRACIOSA TEMPS
(BY MONTH)

OCTOBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
-----	-------	-----	-------	-----	-------	-----	-------	-----	-------	-----	-------

35.6 1267.36

37.5 1406.25

37.4 1398.76

32.2 1036.84

14

142.7

5124.21

35.5

1260.25

39.8 1584.04

40.4 1632.16

33.8 1142.44

40.1 1608.01

37.0 1369.00

33.8 1142.44

142.7

5124.21

14

142.7

5124.21

35.5

1260.25

39.8

UROSAURUS GRACIOSA TEMPS
(BY MONTH)

NOVEMBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
29.4	864.36										
28.2	795.24										

$$N = 2$$

$$\sum x = 57.6$$

$$\sum x^2 = 1659.6$$

$$\bar{x} = 28.8$$

$$s^2 = 1.2$$

UROSAURUS GRACIOSA TEMPS (BY SEM)



x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
41.4	1713.96	35.9	1288.81	39.6	1568.16	40.0	1600.00	22.4	501.76		
33.4	1115.56	34.2	1169.64	42.2	1780.84	39.4	1552.36	32.0	1024.00		
36.6	1339.56	37.8	1428.84	39.8	1584.04	38.4	1474.56	27.8	772.84		
23.0	529.00	35.8	1281.64	35.5	1260.25	38.4	1474.56	27.8	772.84		
24.9	620.01	35.6	1267.36	37.5	1406.25	42.0	1764.00	35.6	1267.36		
33.4	1115.56	35.0	1225.00	35.5	1260.25	40.8	1664.64	32.8	1075.84		
29.6	876.16	36.6	1339.56	35.6	1267.36	38.8	1505.44	29.4	864.36		
40.4	1632.16	31.7	1004.89	32.2	1036.84	41.4	1713.96	32.0	1024.00		
42.6	1814.76	35.3	1246.09	35.8	1281.64	40.8	1664.64	33.8	1142.44		
41.8	1747.24	36.1	1303.21	34.8	1211.04	39.4	1552.36	34.0	1156.00		
37.8	1428.84	36.5	1332.25	29.8	888.04	36.0	1296.00	38.0	1444.00		
33.9	1149.21	39.1	1528.81	36.0	1296.00	42.6	1814.76	37.6	1413.76		
36.0	1296.00	33.9	1149.21	40.4	1632.16	41.4	1713.96	37.0	1369.00		
35.7	1274.49	38.4	1474.56	40.6	1648.36	40.6	1648.36				
37.4	1398.76	33.8	1142.44	35.0	1225.00	41.0	1681.00				
39.4	1552.36	28.6	817.96	40.4	1632.16	39.0	1521.00				
37.1	1376.41	38.9	1513.21	39.2	1536.64	39.2	1536.64				
34.7	1204.09	40.7	1656.49	39.5	1560.25	36.0	1296.00				
30.8	948.64	40.8	1664.64	31.4	985.96	36.0	1296.00				
25.7	660.49	37.9	1436.41	30.8	948.64	36.8	1354.24				
31.8	1011.24	40.0	1600.00	34.6	1197.16	38.2	1459.24				
28.6	817.96	40.5	1640.25	39.2	1536.64	38.4	1474.56				
32.1	1030.41	38.8	1505.44	26.0	676.00	39.0	1521.00				
34.3	1176.49	37.4	1398.76	27.4	750.76	39.6	1568.16				
35.1	1232.01	34.0	1156.00	25.0	625.00	34.2	1169.64				
32.4	1049.76	39.2	1536.64	39.0	1521.00	31.0	961.00				
37.6	1413.76	25.0	625.00	39.6	1568.16	25.0	625.00				
34.6	1197.16	26.2	686.44	39.8	1584.04	28.2	795.24				
33.9	1149.21	36.5	1332.25	42.0	1764.00	33.4	1115.56				
40.0	1600.00	35.5	1260.25	39.4	1552.36	26.0	676.00				

$$\sum x = 4736.5$$

$$\sum x^2 = 171356.31$$

$$N = 35$$

$$\bar{x} = 135.33$$

$$\bar{x}^2 = 18315.11$$

$$\sum x^2 = 171356.31$$

$$\sum x^2 = 171356.31$$

$$\sum x^2 = 171356.31$$

$$\sum x^2 = 171356.31$$

$$\sum x^2 = 171356.31$$

$$\sum x^2 = 171356.31$$

$$\sum x^2 = 171356.31$$

$$\sum x^2 = 171356.31$$

$$\sum x^2 = 171356.31$$

UROSAURUS GRACIOSA TEMPS (BY SEX)



x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
39.0	1521.00	40.4	1632.16	28.0	784.00	29.0	841.00	37.6	1413.76		
39.2	1536.64	38.9	1513.21	26.8	718.24	28.8	829.44	40.8	1664.64		
38.8	1505.44	39.2	1536.64	30.4	924.16	29.0	841.00	39.4	1552.36		
35.5	1260.25	39.6	1568.16	35.4	1253.16	28.4	806.56	46.4	2151.36		
28.6	817.96	39.3	1544.49	34.4	1183.36	28.2	795.24				
36.6	1339.56	36.4	1324.96	42.0	1764.00	25.4	645.16				
37.4	1398.76	29.0	841.00	40.0	1600.00	30.6	936.36				
38.3	1466.89	27.0	729.00	40.4	1632.16	32.0	1024.00				
29.4	864.36	31.8	1011.24	39.6	1568.16	33.2	1102.24				
28.2	795.24	35.5	1260.25	40.0	1600.00	33.2	1102.24				
28.9	835.21	41.2	1697.44	39.0	1521.00	29.8	888.04				
36.0	1296.00	37.8	1428.84	38.4	1474.56	26.0	676.00				
32.5	1056.25	37.5	1406.25	39.4	1552.36	24.0	576.00				
36.4	1324.96	37.4	1398.76	39.8	1584.04	30.2	912.04				
35.1	1232.01	39.9	1592.01	39.0	1521.00	31.0	961.00				
35.4	1253.16	36.6	1339.56	39.5	1560.25	23.4	547.56				
39.6	1197.16	36.2	1310.44	39.0	1521.00	30.4	924.16				
28.6	817.96	35.8	1281.64	39.0	1521.00	34.2	1169.64				
35.4	1253.16	36.0	1296.00	38.6	1489.96	33.0	1089.00				
36.8	1354.24	39.2	1536.64	37.5	1406.25	34.0	1156.00				
36.2	1310.44	38.2	1459.24	37.2	1383.84	37.2	1383.84				
35.6	1267.36	41.4	1713.96	41.0	1681.00	35.2	1239.04				
36.2	1310.44	40.6	1648.36	36.4	1324.96	33.0	1089.00				
32.0	1024.00	33.0	1089.00	36.0	1296.00	$N = 116$					
26.4	696.96	28.9	835.21	36.8	1354.24	$\sum x = 4033.2$					
38.6	1489.96	30.5	930.25	35.4	1253.16	$\sum x^2 = 142,576.08$					
34.6	1197.16	27.8	772.84	39.8	1584.04	$\bar{x} = 34.76$					
37.6	1413.76	29.2	852.64	38.6	1489.96						
39.9	1592.01	29.5	870.25	39.0	1521.00						
37.6	1413.76	30.0	900.00	39.0	1521.00						
34.0	1156.00	35.0	1225.00	30.4	924.16						

UROSAURUS GRACIOSA TEMPS (BY AGE)

ADULT

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
39.0	1521.00	31.8	1011.24	32.0	1024.00	36.4	1324.96	40.4	1632.16	34.4	1183.36
39.2	1536.64	28.6	817.96	31.7	1004.89	39.2	1536.64	40.6	1648.36	39.6	1568.16
33.4	1115.56	28.9	835.21	35.3	1246.09	25.0	625.00	35.0	1225.00	39.8	1584.04
38.8	1505.44	32.1	1030.41	36.1	1303.21	29.0	841.00	39.2	1536.64	42.0	1764.00
35.5	1260.25	34.3	1176.49	36.5	1332.25	26.2	686.44	38.2	1458.24	42.0	1764.00
36.6	1339.56	35.1	1232.01	39.1	1528.81	27.0	729.00	41.4	1713.96	40.0	1600.00
23.0	529.00	36.0	1296.00	26.4	696.96	36.5	1332.25	40.4	1632.16	39.4	1552.36
24.9	620.01	32.5	1056.25	33.9	1149.21	31.8	1011.24	39.2	1536.64	40.4	1632.16
33.4	1115.56	36.4	1324.96	38.6	1489.96	35.5	1260.25	39.5	1560.25	39.6	1568.16
28.6	817.96	32.4	1049.76	38.4	1474.56	35.5	1260.25	36.0	1296.00	40.0	1600.00
29.6	876.16	35.1	1232.01	33.8	1142.44	39.6	1568.16	40.6	1648.36	39.6	1568.16
40.4	1632.16	37.6	1413.76	34.6	1197.16	42.2	1780.84	33.0	1089.00	38.4	1474.56
42.6	1814.76	35.4	1253.16	28.6	817.96	41.2	1697.44	28.9	835.21	40.0	1600.00
41.8	1747.24	34.6	1197.16	37.6	1413.76	39.8	1584.04	30.5	930.25	39.4	1552.36
32.8	1428.84	33.9	1149.21	39.9	1592.01	35.5	1260.25	22.8	772.84	39.8	1584.04
33.9	1149.21	40.0	1600.00	38.9	1513.21	37.5	1406.25	29.2	852.64	39.4	1552.36
36.0	1296.00	35.9	1288.81	40.7	1656.49	35.5	1260.25	31.4	985.96	38.4	1474.56
35.7	1274.49	34.2	1169.64	40.8	1664.64	37.8	1428.84	29.5	870.25	38.4	1474.56
36.6	1339.56	34.6	1197.16	37.6	1413.76	35.6	1267.36	30.8	948.64	42.6	1814.76
37.4	1398.76	37.8	1428.84	37.9	1436.41	37.5	1406.25	34.6	1197.16	40.8	1664.64
37.4	1398.76	35.8	1281.64	40.4	1632.16	37.4	1398.76	39.2	1536.64	39.0	1521.00
38.3	1466.89	35.6	1267.36	38.9	1513.21	32.2	1036.84	30.0	900.00	38.8	1505.44
39.4	1552.36	28.6	817.96	39.2	1536.64	35.8	1281.64	26.0	676.00	39.5	1560.25
37.1	1376.41	35.0	1225.00	40.0	1600.00	34.8	1211.04	27.4	750.76	41.4	1713.96
34.7	1204.09	36.6	1339.56	39.6	1568.16	29.8	888.04	28.0	784.00	40.8	1664.64
30.8	948.64	35.4	1253.16	39.3	1544.49	39.9	1592.01	26.8	718.24	39.0	1521.00
29.4	864.36	36.8	1354.24	40.5	1640.25	36.6	1339.56	30.4	924.16	39.4	1552.36
28.2	795.24	36.2	1310.44	38.8	1505.44	36.2	1310.44	25.0	625.00	39.0	1521.00
28.9	835.21	35.6	1267.36	37.4	1398.76	35.8	1281.64	35.4	1253.16	38.6	1489.96
25.7	660.49	36.2	1310.44	34.0	1156.00	36.0	1296.00	39.0	1521.00	37.5	1406.25
40.6	1648.36	41.0	1681.00	41.0	1681.00	39.0	1521.00	39.2	1536.64	34.0	1156.00

UROSAURUS GRACIOSA TEMPS (BY AGE)

ADULT

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
36.0	1296.00	28.2	795.24	37.6							
41.4	1713.96	30.6	936.36	40.8							
37.2	1383.84	32.0	1024.00	35.8	1281.64						
35.0	1225.00	33.4	1115.56	39.4	1552.36						
36.0	1296.00	26.0	676.00	39.4							
36.4	1324.96	22.4	501.76	38.9	1513.21						
36.0	1296.00	33.2	1102.24	40.4	1632.16						
36.8	1354.24	29.8	888.04	11.0	121.00						
35.4	1253.16	26.0	676.00	11.0	121.00						
36.0	1296.00	24.0	576.00	11.0	121.00						
36.8	1354.24	30.2	912.04								
39.8	1584.04	31.0	961.00								
38.6	1489.96	23.4	547.56								
38.2	1459.24	27.8	772.84								
39.0	1521.00	35.6	1267.36								
38.4	1474.56	30.4	924.16								
39.0	1521.00	34.2	1169.64								
39.6	1568.16	32.8	1075.84								
39.0	1521.00	29.4	864.36								
34.2	1169.64	32.0	1024.00								
31.0	961.00	33.8	1142.44								
30.4	924.16	34.0	1156.00								
29.0	841.00	38.0	1444.00								
28.8	829.44	33.0	1089.00								
29.5	870.25	34.0	1156.00								
29.0	841.00	37.6	1413.76								
28.4	806.56	37.2	1383.84								
27.4	750.76	33.0	1089.00								
28.2	795.24										
25.0	625.00										
25.4	645.16										

$N = 245$

$\sum x = 8607.5$

$\sum x^2 = 308,014.94$

$\bar{x} = 35.13$

UROSAURUS GRACIOSA TEMPS (BY AGE)

IMMATURE

X	X ²	X	X ²	X	X ²	X	X ²	X	X ²	X	X ²
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42.0 1764.00

32.0 1024.00

33.2 1102.24

27.8 772.84

37.0 1369.00

35.2 1239.04

N = 6

$\sum X = 207.2$

$\sum X^2 = 7271.12$

$\bar{X} = 34.53$

35.8

41.3

N = 8

$\sum X = 297.3$

$\sum X^2 = 10715.89$

35.8

1262.28

$S^2 = 22.8$

$S.E. = \sqrt{22.8}$
 $= 4.77$

UROSAURUS GRACIOSA TEMPS
(BY AGE)

JUVENILE

x	x ²	x	x ²	x	x ²	x	x ²	x	x ²	x	x ²
41.4	1713.96										

$$N = 1$$

$$\sum x = 41.4$$

$$\bar{x} = 41.4$$

$$\sum x^2 = 1713.96$$

$$\bar{x}^2 = 1713.96$$

UTA
STWISOURIUM

UTA
STANISLAWA

UTA STANSBURIANA TEMPS
(BY MONTH)

JANUARY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
30.2	912.04			33.8							
30.0	900.00			36.0							
36.0	1296.00			33.8							
35.6	1267.36										
35.4	1253.16										

$\Sigma x = 167.2$

$\Sigma x^2 = 5047.56$

$\bar{x} = 33.44$

$\bar{x} = 33.44$

$\bar{x} = 33.44$

$\bar{x} = 33.44$

$\bar{x} = 33.44$

$= 1.27$

UTA STANSBURIANA TEMPS (BY MONTH)

FEBRUARY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
37.0	1369.00										
31.8	1011.24										
30.8	948.64										
36.6	1339.56										
36.8	1354.24										
37.0	1369.00										
35.6	1267.36										
36.4	1324.96										
31.6	998.56										
37.4	1398.76										
36.6	1339.56										
34.8	1211.04										
31.4	985.96										

$n = 13$
 $\sum x = 453.8$
 $\sum x^2 = 15917.88$
 $\bar{x} = 34.9$
 $(\bar{x})^2 = 1218.01$
 $SS = 3119.87$

$$s^2 = \frac{15917.88 - 13(1218.01)}{12} = \frac{821.75}{12} = 6.9$$

$$SE = \sqrt{\frac{6.9}{13}} = 0.53$$

2 SE
 33.4
 36.4

UTA STANSBURLAND TEMPS (BY MONTH)

MARCH

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
33.8	1142.44	36.8	1354.24								
33.0	1089.00	36.0	1296.00								
36.8	1359.24	36.2	1310.44								
36.9	1361.61	35.2	1239.04								
30.8	948.64	36.2	1310.44								
34.3	1176.49	35.0	1225.00								
31.0	961.00	32.8	1075.84								
35.6	1267.36	33.2	1102.24								
36.0	1296.00	35.0	1225.00								
36.6	1339.56	33.0	1089.00								
34.8	1211.04	28.4	806.56								
35.9	1288.81	33.4	1115.56								
35.4	1253.16	36.2	1310.44								
33.2	1102.24	39.6	1568.16								
36.0	1296.00	35.5	1260.25								
37.4	1398.76										
36.8	1354.24										
33.9	1149.21										
33.6	1128.96										
35.3	1246.09										
36.0	1296.00										
34.0	1156.00										
35.0	1225.00										
34.6	1197.16										
36.0	1296.00										
33.7	1135.69										
32.4	1049.76										
34.8	1211.04										
36.6	1339.56										
34.6	1197.16										

$$N = 45$$

$$\sum X = 1567.3$$

$$\sum X^2 = 54756.43$$

$$\bar{X} = 34.8$$

$$\bar{X} = 34.8$$

$$S^2 = 4.48$$

$$S^2 = 4.48$$

$$= .216$$

UTA STANSBURIANA TEMPS (BY MONTH)

APRIL

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
36.8	1354.24										
38.6	1489.96										
36.8	1354.24										
35.3	1246.09										
30.6	936.36										
37.2	1383.84										
35.4	1253.16										
32.8	1075.84										
35.9	1288.81										
37.5	1406.25										
33.2	1102.24										
32.8	1075.84										
30.5	930.25										
30.7	942.49										
30.4	924.16										
39.2	1169.64										
36.6	1339.56										
39.8	1211.04										
37.0	1369.00										
32.4	1049.76										
35.0	1225.00										
34.4	1183.36										
33.0	1089.00										
35.4	1253.16										
39.0	1521.00										
30.5	930.25										
38.0	1444.00										

$$N = 27$$

$$\sum x = 934.8$$

$$\sum x^2 = 27485.54$$

$$\bar{x} = 34.62$$

$$\bar{x}^2 = 1198.54$$

UTA STANSBURIANA TEMPS (BY MONTH)

MAY

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
35.6	1267.36														
34.4	1183.36														
34.8	1211.04														
32.6	1062.76														
36.0	1296.00														
38.4	1474.56														
33.0	1089.00														
34.8	1211.04														
29.0	841.00														
37.0	1369.00														
38.2	1459.24														
26.0	676.00														
30.6	936.36														

$$N = 13$$

$$\sum x = 443.4$$

$$\sum x^2 = 15076.72$$

$$\bar{x} = 33.87$$

$$(\bar{x})^2 = 1147.17$$

$$s^2 = 13.1$$

$$s.e. = \sqrt{13.1}$$

$$= 1.02$$

UTA STANSBURIANA TEMPS (BY MONTH)

JULY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
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36.0	1296.00
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36.0	1296.00
------	---------

33.5	1122.25
------	---------

35.6	1267.36
------	---------

35.0	1225.00
------	---------

34.2	1169.64
------	---------

33.9	1149.21
------	---------

$N = 7$

$\Sigma x = 244.2$

$\Sigma x^2 = 8525.46$

$\bar{x} = 34.8857$

$(N-1) s^2 = 12.5714$

$s^2 = 1.52$

$s = \sqrt{1.52}$

$= 1.23$

UTA STANSBURIANA TEMPS (BY MONTH)

AUGUST

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
-----	-------	-----	-------	-----	-------	-----	-------	-----	-------	-----	-------

34.0 1156.00

38.0 1444.00

35.4 1253.16

37.7 1421.29

37.0 1369.00

36.8 1354.24

37.4 1398.76

N = 7

$\Sigma x = 256.3$

$\Sigma x^2 = 1090.45$

$\bar{x} = 36.61$

$(\bar{x})^2 = 1340.29$

$n = 7$

$\Sigma x^2 - n(\bar{x})^2$

$= 1090.45 - 1340.29$

36.8 1354.24

37.8 1428.84

37.1 1376.41

39.4 1552.36

36.8 1354.24

38.2 1459.24

37.8 1428.84

37.2 1383.84

$$S^2 = \frac{20734.41 - 7(1376.41)}{7-1} = \frac{8431}{6} = 1405.16$$

$$SE = \frac{6.31}{\sqrt{1405.16}} = 0.165$$

N = 15

$\Sigma x = 557.4$

$\Sigma x^2 = 20734.41$

$\bar{x} = 37.1$

$(\bar{x})^2 = 1376.41$

Range = 34.0 - 39.4

UTA STANSBURIANA TEMPS (BY MONTH)

SEPTEMBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
31.7	1004.89														
33.0	1089														
29.5	870.25														
38.0	1444.00														
37.0	1369.00														
36.6	1339.56														
35.7	1274.49														
34.8	1211.04														
36.0	1296.00														
36.3	1317.69														
35.0	1225.00														
36.2	1310.44														
36.4	1324.96														
26.6	707.56														
25.9	670.81														
39.0	1521.00														
37.8	1428.84														
39.8	1584.04														
39.8	1584.04														
35.2	1239.04														

$N = 20$

$\Sigma x = 700.5$

$\Sigma x^2 = 24811.65$

$\bar{x} = 35.01$

$(\bar{x})^2 = 1225.70$

$\Sigma x^2 - N(\bar{x})^2 = 15.95$

$s^2 = 0.7975$

$s = 0.893$

UTA STANSBURIANA TEMPS
(BY MONTH)

OCTOBER

x	x ²	x	x ²	x	x ²	x	x ²	x	x ²	x	x ²
---	----------------	---	----------------	---	----------------	---	----------------	---	----------------	---	----------------

35.4	1253.16
------	---------

37.5	1406.25
------	---------

35.3	1246.09
------	---------

Σ = 107.2

Σ x² = 3905.5

Σ x = 107.2

Σ x³ = 1300.32

Σ x⁴ = 1300.32

UTA stansburiana Temps.
(By Month)

NOVEMBER

<u>X</u>	<u>X²</u>
37.6	1413.76
33.2	1102.24
34.0	1156.00
38.0	1444.00
37.5	1406.25
35.8	1281.64
36.5	1332.25
35.0	1225.00
<u>36.8</u>	<u>1354.24</u>

$$N = 9$$

$$\Sigma X = 324.4$$

$$\Sigma X^2 = 11,715.38$$

$$\bar{X} = 36.0$$

$$(\bar{X})^2 = 1296.00$$

UTA stansburiana Temps.
(By Month)

DECEMBER

<u>x</u>	<u>x²</u>
32.6	
36.6	
36.4	
35.2	
32.0	

UTA STANSBURIANA TEMPS (BY SEX)



x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
33.8	1142.44	36.0	1296.00	33.2	1102.24	38.6	1489.96	37.1			
37.2	1383.84	36.6	1339.56	35.0	1225.00	36.6	1339.56	36.8			
38.0	1444.00	34.8	1211.04	28.4	806.56	37.0	1369.00	36.8			
36.0	1296.00	35.4	1253.16	33.4	1115.56	37.0	1369.00	38.2			
36.0	1296.00	36.0	1296.00	36.2	1310.44	38.8	1505.44	37.2			
33.5	1122.25	37.4	1398.76	35.5	1260.25	37.0	1369.00	37.6			
35.6	1267.36	35.3	1246.09	30.4	924.16	36.8	1354.24	38.0			
34.0	1156.00	35.0	1225.00	34.2	1169.64	37.4	1398.76	37.5			
35.4	1253.16	34.6	1197.16	36.6	1339.56	33.0	1089.00	35.8			
37.7	1421.29	36.0	1296.00	37.8	1428.84	29.0	841.00	36.5			
37.0	1369.00	32.4	1049.76	39.8	1584.04	38.2	1459.24	36.8			
31.7	1004.89	34.8	1211.04	39.8	1584.04	34.2	1169.64	32.6			
33.0	1089.00	36.8	1354.24	32.4	1049.76	36.0	1296.00	36.6			
29.5	870.25	38.6	1489.96	35.0	1225.00	35.6	1267.36	36.4			
38.0	1444.00	35.3	1246.09	35.4	1253.16	35.4	1253.16	35.2			
37.0	1369.00	30.6	936.36	34.8	1211.04	38.0	1444.00	32.0			
36.6	1339.56	37.2	1383.84	35.2	1239.04	30.6	936.36	33.5			
34.8	1211.04	35.4	1253.16	35.6	1267.36	$N = 107$					
36.0	1296.00	35.9	1288.81	35.6	1267.36	$\sum x = 3771.2$					
36.3	1317.69	37.5	1406.25	37.0	1369.00	$\sum x^2 = 13311.78$					
35.0	1225.00	33.2	1102.24	36.0	1296.00	$\bar{x} = 35.3$					
36.2	1310.44	32.8	1075.84	37.0	1369.00	$s^2 = 1246.09$					
25.9	670.81	30.7	942.49	37.0	1369.00	$s = 35.1$					
35.4	1253.16	35.6	1267.36	37.0	1369.00	$s.e. = 1.87$					
30.2	912.04	40.2	1616.04	37.2	1383.84	$= 0.21$					
33.0	1089.00	34.6	1197.16	36.2	1310.44						
36.9	1361.61	36.2	1310.44	36.6	1339.56						
34.3	1176.49	35.2	1239.04	36.6	1339.56						
31.0	961.00	36.2	1310.44	35.4	1253.16						
35.6	1267.36	35.0	1225.00	35.8	1281.64						

(BY SEX)

[illegible]

UTA STANSBURIANA TEMPS
(BY AGE)

ADULT

<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>	<u>x</u>	<u>x²</u>
33.8	1142.44	35.6	1267.36	35.9	1288.81	37.8	1428.84	34.0	1156.00		
37.2	1383.84	36.0	1296.00	37.5	1406.25	39.8	1584.04	36.6	1339.56		
38.0	1444.00	36.6	1339.56	33.2	1102.24	39.8	1584.04	35.4	1253.16		
38.2	1459.24	34.8	1211.04	32.8	1075.84	35.2	1239.04	35.8	1281.64		
36.0	1296.00	35.9	1288.81	30.5	930.25	34.8	1211.04	38.6	1489.96		
36.0	1296.00	35.4	1253.16	30.7	942.49	37.0	1369.00	36.6	1339.56		
33.5	1122.25	33.2	1102.24	35.6	1267.36	32.4	1049.76	33.0	1089.00		
35.6	1267.36	36.0	1296.00	34.4	1183.36	35.0	1225.00	37.0	1369.00		
35.0	1225.00	37.4	1398.76	37.3	1391.29	34.4	1183.36	37.0	1369.00	36.8	
34.0	1156.00	36.8	1354.24	40.2	1616.04	33.0	1089.00	38.8	1505.44	37.8	
38.0	1444.00	33.9	1149.21	34.6	1197.16	35.4	1253.16	37.0	1369.00	37.1	
35.4	1253.16	35.3	1246.09	36.8	1354.24	39.0	1521.00	36.4	1324.96	39.4	
37.7	1421.29	35.3	1246.09	36.0	1296.00	34.8	1211.04	36.8	1354.24	36.8	
33.0	1089.00	36.0	1296.00	36.2	1310.44	32.6	1062.76	37.4	1398.76	38.2	
29.5	870.25	34.0	1156.00	35.2	1239.04	36.0	1296.00	33.0	1089.00	37.8	
38.0	1444.00	35.0	1225.00	36.2	1310.44	38.4	1474.56	34.8	1211.04	37.2	
37.0	1369.00	34.6	1197.16	35.0	1225.00	35.2	1239.04	29.0	841.00	34.0	
36.6	1339.56	36.0	1296.00	32.8	1075.84	35.6	1267.36	37.0	1369.00	38.0	
35.7	1274.49	33.7	1135.69	33.2	1102.24	35.6	1267.36	38.2	1459.24	37.5	
25.9	670.81	32.4	1049.76	35.0	1225.00	39.0	1521.00	34.2	1169.64	35.8	
35.4	1253.16	34.8	1211.04	33.0	1089.00	37.0	1369.00	33.9	1149.21	36.5	
37.5	1406.25	36.6	1339.56	28.4	806.56	36.0	1296.00	36.0	1296.00	35.0	
30.2	912.04	36.8	1354.24	33.4	1115.56	37.0	1369.00	35.6	1267.36	36.8	
30.0	900.00	38.6	1489.96	36.2	1310.44	37.0	1369.00	35.4	1253.16	36.6	
33.0	1089.00	36.8	1354.24	39.6	1568.16	34.0	1156.00	38.0		36.4	
36.8	1354.24	35.3	1246.09	35.5	1260.25	37.0	1369.00	30.5		35.2	
36.9	1361.61	30.6	936.36	30.4	924.16	37.0	1369.00	26.0		32.0	
30.8	948.64	37.2	1383.84	34.2	1169.64	37.2	1383.84	30.6		36.0	
34.3	1176.49	35.4	1253.16	36.6	1339.56	36.2	1310.44				
31.0	961.00	32.8	1075.84	39.0	1521.00	36.6	1339.56				

UTA STANSBURIANA TEMPS
(BY AGE)

IMMATURE

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
37.0	1369.00			37.6							
31.7	1004.89			33.2							
34.8	1211.04			32.6							
36.0	1296.00			33.8							
36.3	1317.69			33.8							
35.0	1225.00										
36.2	1310.44										
36.4	1324.96										
26.6	707.56										
35.3	1246.09										
33.6	1128.96										
36.8	1354.24										
37.4	1398.76										

$$N = 13$$

$$\Sigma x = 453.1$$

$$\Sigma x^2 = 15811.62$$

$$\bar{x} = 34.75$$

$$\Sigma x^2 = 1214.52$$

$$s^2 = 1.2$$

$$s = 1.095$$

$$= .823$$

UTA STANSBURIANA TEMPS
(BY AGE)

JUVENILE

x x² x x² x x² x x² x x² x x²

Thermal Gradient

Thermal Gradient

Callisaurus IIII
Crotaphytus us. IIII I
Uma notata II
Phrynosoma platy. IIII
Phrynosoma coronatum IIII
Sceloporus magister IIII
Urosaurus gracilis IIII

Capt April 11-12/69 Algodones Field Trip

Callisaurus

2nd Day in Gradient 4/19/69

Lights on at 8:15

Reading every 17 min. starting @ ~~11:00~~ 11:00 AM

1	37.2
2	38.6
3	39.2
4	38.3
5	39.0
6	40.7
7	39.8
8	38.2
9	39.4
10	39.4
11	39.3
12	39.1
13	39.1
14	40.1
15	37.8
16	38.3
17	39.2
18	38.2
19	37.8
20	38.7
21	38.4
22	39.4
23	38.9
24	38.5
25	38.0

ON ROLL #3		<u>Callisaurus draconoides</u> from Mojave Field Trip					(May 16-18)
	1	(NOT CONNECTED) 8	(DEAD) 13	17 (DEAD)	22	Data from 2nd day in chamber Readings every 15 minutes lights on at 1000. Readings from 1445	
1	38.3		Not in heat at all. Temp. remains at approx 26.4°C.	Temp remains at approx. 35°C.	37.3		
2	38.6				37.2		
3	38.6				37.5		
4	39.7				37.6		
5	39.1				37.5		
6	34.7				37.0		
7	38.9				36.8		
8	40.1				36.9		
9	39.7				37.2		
10	39.4				36.9		
11	40.6				36.6		
12	37.4				37.4		
13	37.3				37.6		
14	36.7				37.7		
15	36.9				37.7		
16	37.1				37.4		
17	37.5				37.5		
18	37.8				38.0		
19	37.9				37.2		
20	35.1				37.0		
21	38.6				36.3		
22	38.2				37.6		
23	39.2				38.4		
24	36.5				37.7		
25	36.6				36.1		

ON ROLL
#3

Callisaurus draconoides from Mojave field trip.
(May ~~16-17~~ 23-25). Data from 2nd day in
chamber. Readings every 15 minutes.

#13

1	36.2
2	36.4
3	36.5
4	36.5
5	36.6
6	36.7
7	36.8
8	36.9
9	35.9
10	31.7
11	30.2
12	32.0
13	32.1
14	32.1
15	32.4
16	32.7
17	32.8
18	32.9
19	32.9
20	33.8
21	34.0
22	34.1
23	34.3
24	34.4
25	34.4

all others dead. Data worthless because
they died at the beginning
of the experiment.

Ceratophyllum Capt April 14-12/69 Algodones Field

2nd Day in Gradient 4/15/69

~~11:00~~ AM - 4:15 PM (15 min intervals)

10:15

1	6	8	13
1 34.8	38.4	35.1	38.5
2 35.1	38.5	39.5	37.7
3 36.3	38.3	40.0	36.5
4 36.5	38.2	33.3	38.9
5 38.6	38.1	37.7	37.7
6 36.9	39.0	37.9	37.4
7 35.4	39.5	35.0	37.7
8 37.3	39.1	37.3	36.5
9 37.8	37.8	38.5	38.4
10 37.0	37.0	36.9	38.5
11 36.7	36.7	35.2	38.2
12 37.1	37.1	38.6	34.2
13 37.2	38.3	38.1	32.8
14 36.8	38.4	35.9	33.8
15 37.0	38.4	36.8	32.9
16 37.2	38.5	36.7	33.0
17 37.3	38.5	35.3	35.3
18 37.0	38.6	39.3	40.0
19 37.3	39.0	39.5	40.3
20 37.4	40.0	39.7	34.5
21 37.8	40.4	35.9	35.6
22 37.7	40.1	37.2	37.0
23 33.2	40.1	36.7	37.9
24 27.2			
25			

Capt. April 11-12/69 Algodones Field Trip

2nd Day in Gradient 4/18

Lights on at 8:15

Reading every 15 min beginning 11:00AM -

6 Uma notata

8 Uma

13 Crotaphytus

Crotaphytus

18

1	33.6	32.7	36.5	38.3
2	35.7	34.6	36.0	36.7
3	32.5	33.3	36.5	37.7
4	37.0	32.9	37.1	34.3
5	36.9	35.0	36.3	35.2
6	36.8	34.6	37.3	37.9
7	36.9	33.7	39.7	30.8
8	36.9	33.2	24.7 38.7	26.3
9	36.7	31.7	36.7	38.6
10	36.3	35.7	35.3	29.1
11	33.5	34.6	39.8	37.2
12	35.0	35.1	40.4	37.4
13	34.8	34.5	37.5	37.5
14	33.7	34.0	37.8	39.5
15	33.8	34.3	36.5	30.1
16	32.3	34.4	38.8	26.4
17	32.8	34.1	42.1	25.2
18	34.5	34.5	38.0	24.7
19	31.9	34.3	34.6	24.8
20	35.5	34.4	32.0	24.9

21

22

23

24

25

CN ROLL
#3

Crotaphytus wislizenii from Mojave field trip.
(May 16-18) Data from second day in chamber.
Reading every 15 minutes. Lights on at 1000.
Readings from 1200.

(DISCONNECTED)

	1	6	13	17	22
1	34.7	38.7	37.3	34.7	37.8
2	37.3	37.9	36.8	34.2	37.7
3	38.5	37.3	37.5	33.5	37.8
4	38.1	37.9	39.3	33.4	38.6
5	38.2	38.2	39.9	33.3	37.4
6	38.3	38.4	37.1	33.4	36.8
7	38.5	39.5	39.0	38.7	36.9
8	37.6	39.8	39.1	34.0	36.9
9	33.4	39.7	39.5	34.2	37.0
10	34.9	40.3	39.5	34.3	37.0
11	40.0	40.4	39.3	34.2	36.6
12	39.7	39.5	37.2	38.7	36.6
13	39.1	38.2	38.2	38.5	36.3
14	38.9	37.3	38.3	34.9	36.4
15	38.8	33.1	37.8	26.9	36.0
16	38.8	40.8	37.7	31.9	36.0
17	38.4	34.9	33.0	32.3	33.9
18	37.0	38.7	38.3	33.8	40.0
19	36.7	38.2	38.6	31.0	38.0
20	33.7	36.9	39.0	29.5	37.3
21	34.2	36.6	39.0	39.6	37.1
22	31.0	37.8	39.1	28.9	37.2
23	34.8	38.6	39.1	25.5	37.3
24	35.3	37.5	39.3	24.8	37.6
25	35.5	41.2	39.3	24.6	37.6

ON ROLL
3

Phrynosoma platyrhinos collected on Mojave field
trip (May 23-25). Lights on at 1000. Data from
Data from second day in chamber readings every
15 minutes. Recorded from 1145.

	(LEAD)	(DEAD)		(DEAD)	
	1	6	13	17	22
1	28.6	32.9	35.6		37.1
2	28.7	31.5	35.6		35.6
3	28.7	32.1	34.8		34.9
4	28.3	35.9	32.7		33.4
5	28.5	35.6	35.7		33.2
6	28.9	33.4	31.2		33.0
7	28.2	32.2	32.0		32.9
8	28.1	33.1	35.3		32.8
9	28.2	33.7	37.7		32.8
10	28.2	34.1	38.5		32.8
11	28.3	34.3	38.4		32.9
12	28.3	34.5	38.9		32.9
13	27.4	35.0	39.2		33.2
14	30.9	34.9	39.3		33.1
15	28.0	34.7	39.3		33.2
16	28.3	34.6	39.3		33.1
17	27.8	34.6	39.3		33.1
18	28.5	34.5	39.2		33.2
19	28.1	34.3	39.2		33.3
20	28.7	32.3	39.3		33.4
21	28.5	32.4	39.5		36.6
22	28.8	32.9	37.3		36.8
23	28.9	33.3	35.3		36.2
24	28.5	33.5	34.7		35.6
25	28.3	33.9	34.5		35.8

Did early in the experiment. ~~Set~~ No usable data.

on Roll
2

1	25.1	35.3	34.6	37.1	35.5
2	25.9	35.9	36.4	34.1	35.6
3	26.3	36.5	34.6	35.4	35.4
4	26.1	38.4	33.3	33.3	34.7
5	27.5	36.2	35.7	33.3	34.6
6	27.8	36.1	34.8	31.2	34.8
7	28.1	37.1	35.1	27.9	35.1
8	28.4	37.5	34.2	29.5	35.4
9	35.6	37.5	34.1	27.6	34.5
10	35.1	36.4	34.1	30.3	34.7
11	38.0	36.3	33.5	30.4	38.2
12	38.4	36.6	35.7	30.1	36.8
13	37.8	35.7	36.3	34.7	36.1
14	37.5	37.0	36.2	34.0	36.0
15	37.1	36.5	36.2	34.0	36.0
16	36.9	35.7	35.9	34.0	36.0
17	36.9	36.1	35.3	41.8	36.0
18	36.3	36.7	35.1	34.0	34.0
19	35.6	36.9	35.1	34.0	34.0
20	37.0	36.7	35.4	34.0	34.0
21	37.4	36.9	34.0	34.9	34.0
22	37.0	36.7	35.3	34.0	34.0
23	36.8	36.7	35.7	34.0	34.0
24	38.0	36.5	35.9	34.0	34.0
25	38.4	37.6	35.2	34.3	34.7

Considerable
movement up to the
point C

most of
the 1/2

on Roll
#2

2nd

1	35.9	32.6	33.2	4
2	35.1	32.1	33.1	5
3	35.5	32.8	33.1	6
4	35.4	33.0	33.1	7
5	35.1	33.1	33.1	8
6	36.2	32.8	33.1	9
7	35.6	32.7	33.1	10
8	35.1	32.7	33.1	11
9	35.5	32.7	33.1	12
10	32.7	32.8	33.1	13
11	36.6	33.0	34.9	14
12	35.2	33.0	34.6	15
13	34.8	33.3	34.0	16
14	34.6	34.0	33.1	17
15	36.0	34.2	33.1	18
16	36.3	33.3	32.7 32.8	19
17	35.9	33.1	33.4	20
18	36.2	32.2	32.5	21
19	34.5	32.2	32.3	22
20	34.0	32.3	32.7	23
21	34.3	32.7	33.3	24
22	33.2	34.2	33.7	25
23	35.5	33.3	33.8	26
24	36.3	33.1	34.1	27
25	35.7	33.2	33.7	28

Urosaurus graciosus Capt. April 11-12/69 on Algodones Field Trip

2nd Day in Gradient 4/21

11:30 - 17:50 Lights on at 8:15
(readings every 17 min)

	#6	#8	#13	#18
1	39.5	36.2	29.5	35.3
2	40.0	33.2	30.0	35.1
3	40.1	34.4	30.0	33.7
4	40.0	35.0	30.4	33.6
5	40.2	35.2	31.3	33.6
6	40.2	35.2	31.8	34.0
7	40.3	35.2	31.9	33.8
8	40.4	35.3	32.0	34.2
9	40.7	35.6	32.9	35.1
10	41.2	37.2	33.3	35.7
11	40.0	32.7	33.7	34.9
12	38.8	31.1	33.7	29.6
13	39.9	33.9	33.9	35.0
14	39.9	34.4	33.9	35.8
15	39.9	34.6	33.9	35.8
16	40.0	34.8	33.9	35.5
17	40.1	34.9	34.2	30.4
18	40.4	35.0	34.5	27.9
19	40.8	35.3	34.6	28.8
20	40.7	34 31.4	34.3	33.7
21	40.2	30.6	33.8	33.7
22	39.9	30.9	34.2	35.0
23	40.1	33.3	34.0	35.1
24	40.4	33.9	34.0	35.1
25				

R-371

STEEL BACKPLATE

S. E. & M. VERNON, INC.

U. S. A.

